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1.3 hk2-api 2.2.0-b21

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1.4 jersey-container-servlet-core 2.5.1

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cat jersey-container-servlet-core-2.5.1-sources/org/glassfish/jersey/servlet/internal/ThreadLocalInvoker.java

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1.7 scannotation 1.0.3

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1.8 json-schema-validator 1.2.2

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1.9 jbcrypt 0.4

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* /jbcrypt-0-4-sources-5-jar/org/mindrot/jbcrypt/BCrypt.java

1.10 jaxrs-api 3.0.6.Final

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* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/FormParam.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ApplicationPath.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/RuntimeDelegate.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Application.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/QueryParam.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Request.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/UriInfo.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/MessageBodyReader.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/PUT.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/HttpHeaders.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/POST.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Cookie.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/Consumes.java
*
 /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/Produces.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/FactoryFinder.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/MediaType.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/package-info.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/NewCookie.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Response.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/DefaultValue.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/WebApplicationException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/EntityTag.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/HEAD.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Variant.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/CookieParam.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/MatrixParam.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/OPTIONS.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/UriBuilder.java
*
 /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/CacheControl.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/PathParam.java
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* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/ContainerResponseContext.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ForbiddenException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Configuration.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/ClientResponseContext.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/NotAllowedException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/PreMatching.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/NotAcceptableException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ClientErrorException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ServiceUnavailableException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/AsyncResponse.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/ContainerRequestFilter.java
*
 /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/InternalServerErrorException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/BadRequestException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/RedirectionException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ServerErrorException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/NotFoundException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/ClientResponseFilter.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/AbstractMultivaluedMap.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/NotSupportedException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/ContainerRequestContext.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/NotAuthorizedException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/ContainerResponseFilter.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/ClientRequestFilter.java
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* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/FactoryFinder.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Context.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/package-info.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/StreamingOutput.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/SecurityContext.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/MultivaluedMap.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/HttpMethod.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/Provider.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/ExceptionMapper.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/GenericType.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/HeaderParam.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/Path.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/Encoded.java
*
/jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/package-info.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/Providers.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/MessageBodyWriter.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/UriBuilderException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/PathSegment.java
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* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/package-info.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Configurable.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/WriterInterceptorContext.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ProcessingException.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/WebTarget.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Link.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/Entity.java

* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/InvocationCallback.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/Form.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/Client.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/ReaderInterceptorContext.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/AsyncInvoker.java
*
 /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/ClientBuilder.java
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/**
* Convert the supplied value to a String.
*
* This method is reserved for future use. Proprietary JAX-RS extensions may leverage the method.
* Users should be aware that any such support for the method comes at the expense of producing
* non-portable code.
*
*
* @param value the value of type {@code T}.
* @return a String representation of the value.
* @throws IllegalArgumentException if the supplied object cannot be
* serialized or is {@code null}.
*/

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* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/ResourceContext.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/RuntimeType.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/CompletionCallback.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ConstrainedTo.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/TimeoutHandler.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/ConnectionCallback.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/Suspended.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/BeanParam.java
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* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/DynamicFeature.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/NameBinding.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/container/ResourceInfo.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/InterceptorContext.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/ext/ReaderInterceptor.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/core/MultivaluedHashMap.java
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* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/Priorities.java
* /jaxrs-api-3-0-6-final-sources-jar/javax/ws/rs/client/ResponseProcessingException.java

1.11 resteasy-jax-rs 3.0.6.Final

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/**
* Any exception thrown by a MessageBodyReader chain that is not an instance of a ReaderException is caught internally
* by the Resteasy runtime and wrapped with an instance of ReaderException.
*
* If you want to have special exception handling for exceptions thrown by MessageBodyReaders, then write an exception
* mapper for ReaderException.
*

```
* Also, you may extend this class and throw instances of it from your MessageBodyReaders (and interceptors)
*
* @author <a href="mailto:bill@burkecentral.com">Bill Burke</a>
* @version $Revision: 1 $
*/
```

Found in path(s):
* /resteasy-jaxrs-3-0-6-final-sources-jar/org/jboss/resteasy/spi/ReaderException.java
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```
/**
* <p>Encodes and decodes to and from Base64 notation.</p>
* <p>Homepage: <a href="http://iharder.net/base64">http://iharder.net/base64</a>.</p>
* <p/>
* <p>Example:</p>
* <p/>
* <code>String encoded = Base64.encode( myByteArray );</code>
* <br />
* <code>byte[] myByteArray = Base64.decode( encoded );</code>
* <p/>
* <p>The <tt>options</tt> parameter, which appears in a few places, is used to pass
* several pieces of information to the encoder. In the "higher level" methods such as
* encodeBytes( bytes, options ) the options parameter can be used to indicate such
* things as first gzipping the bytes before encoding them, not inserting linefeeds,
* and encoding using the URL-safe and Ordered dialects.</p>
* <p/>
* <p>Note, according to <a href="http://www.faqs.org/rfcs/rfc3548.html">RFC3548</a>,
* Section 2.1, implementations should not add line feeds unless explicitly told
* to do so. I've got Base64
 set to this behavior now, although earlier versions
* broke lines by default.</p>
* <p/>
* <p>The constants defined in Base64 can be OR-ed together to combine options, so you
* might make a call like this:</p>
* <p/>
* <code>String encoded = Base64.encodeBytes( mybytes, Base64.GZIP | Base64.DO_BREAK_LINES );</code>
* <p>to compress the data before encoding it and then making the output have newline characters.</p>
* <p>Also...</p>
* <code>String encoded = Base64.encodeBytes( crazyString.getBytes() );</code>
* <p/>
* <p/>
* <p/>
* <p>
* Change Log:
* </p>
* <ul>
* <li>v2.3.7 - Fixed subtle bug when base 64 input stream contained the
* value 01111111, which is an invalid base 64 character but should not
```

* throw an ArrayIndexOutOfBoundsException either. Led to discovery of
* mishandling (or potential for better handling) of other bad input
* characters. You should now get an IOException if you try decoding
* something that has bad characters in it.
* v2.3.6
- Fixed bug when breaking lines and the final byte of the encoded
* string ended in the last column; the buffer was not properly shrunk and
* contained an extra (null) byte that made it into the string.
* v2.3.5 - Fixed bug in {@link #encodeFromFile} where estimated buffer size
* was wrong for files of size 31, 34, and 37 bytes.
* v2.3.4 - Fixed bug when working with gzipped streams whereby flushing
* the Base64.OutputStream closed the Base64 encoding (by padding with equals
* signs) too soon. Also added an option to suppress the automatic decoding
* of gzipped streams. Also added experimental support for specifying a
* class loader when using the
* {@link #decodeToObject(java.lang.String, int, java.lang.ClassLoader)}
* method.
* v2.3.3 - Changed default char encoding to US-ASCII which reduces the internal Java
* footprint with its CharEncoders and so forth. Fixed some javadocs that were
* inconsistent. Removed imports and specified things
like java.io.IOException
* explicitly inline.
* v2.3.2 - Reduced memory footprint! Finally refined the "guessing" of how big the
* final encoded data will be so that the code doesn't have to create two output
* arrays: an oversized initial one and then a final, exact-sized one. Big win
* when using the {@link #encodeBytesToBytes(byte[])} family of methods (and not
* using the gzip options which uses a different mechanism with streams and stuff).
* v2.3.1 - Added {@link #encodeBytesToBytes(byte[], int, int, int)} and some
* similar helper methods to be more efficient with memory by not returning a
* String but just a byte array.
* v2.3 - This is not a drop-in replacement! This is two years of comments
* and bug fixes queued up and finally executed. Thanks to everyone who sent
* me stuff, and I'm sorry I wasn't able to distribute your fixes to everyone else.
* Much bad coding was cleaned up including throwing exceptions where necessary
* instead of returning null values or something similar. Here are some changes
* that may affect you:
*
* Does not break lines, by default. This is to keep in compliance with
* RFC3548.
* Throws exceptions instead of returning null values. Because some operations
* (especially those that may permit the GZIP option) use IO streams, there
* is a possiblity of an java.io.IOException being thrown. After some discussion and
* thought, I've changed the behavior of the methods to throw java.io.IOExceptions
* rather than return null if ever there's an error. I think this is more
* appropriate, though it will require some changes to your code. Sorry,
* it should have been done this way to begin with.
* Removed all references to System.out, System.err, and the like.
* Shame on me. All I can say is sorry they were ever there.

* Throws NullPointerExceptions and
IllegalArgumentExceptions as needed
* such as when passed arrays are null or offsets are invalid.
* Cleaned up as much javadoc as I could to avoid any javadoc warnings.
* This was especially annoying before for people who were thorough in their
* own projects and then had gobs of javadoc warnings on this file.
*
* v2.2.1 - Fixed bug using URL_SAFE and ORDERED encodings. Fixed bug
* when using very small files (~< 40 bytes).
* v2.2 - Added some helper methods for encoding/decoding directly from
* one file to the next. Also added a main() method to support command line
* encoding/decoding from one file to the next. Also added these Base64 dialects:
*
* The default is RFC3548 format.
* Calling Base64.setFormat(Base64.BASE64_FORMAT.URLSAFE_FORMAT) generates
* URL and file name friendly format as described in Section 4 of RFC3548.
* http://www.faqs.org/rfcs/rfc3548.html
* Calling Base64.setFormat(Base64.BASE64_FORMAT.ORDERED_FORMAT)
generates
* URL and file name friendly format that preserves lexical ordering as described
* in http://www.faqs.org/qa/rfcc-1940.html
*
* Special thanks to Jim Kellerman at http://www.powerset.com/
* for contributing the new Base64 dialects.
*
* <p/>
* v2.1 - Cleaned up javadoc comments and unused variables and methods. Added
* some convenience methods for reading and writing to and from files.
* v2.0.2 - Now specifies UTF-8 encoding in places where the code fails on systems
* with other encodings (like EBCDIC).
* v2.0.1 - Fixed an error when decoding a single byte, that is, when the
* encoded data was a single byte.
* v2.0 - I got rid of methods that used booleans to set options.
* Now everything is more consolidated and cleaner. The code now detects
* when data that's being decoded is gzip-compressed and will decompress it
* automatically. Generally things
are cleaner. You'll probably have to
* change some method calls that you were making to support the new
* options format (<tt>int</tt>s that you "OR" together).
* v1.5.1 - Fixed bug when decompressing and decoding to a
* byte[] using <tt>decode(String s, boolean gzipCompressed)</tt>.
* Added the ability to "suspend" encoding in the Output Stream so
* you can turn on and off the encoding if you need to embed base64
* data in an otherwise "normal" stream (like an XML file).
* v1.5 - Output stream pases on flush() command but doesn't do anything itself.
* This helps when using GZIP streams.
* Added the ability to GZip-compress objects before encoding them.
* v1.4 - Added helper methods to read/write files.

* v1.3.6 - Fixed OutputStream.flush() so that 'position' is reset.
* v1.3.5 - Added flag to turn on and off line breaks. Fixed bug in input stream
* where last buffer being read, if not completely full, was not returned.
* v1.3.4 - Fixed when "improperly padded stream" error was thrown at the wrong time.
* v1.3.3 - Fixed I/O streams which were totally messed up.
*
*
*
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* plenty of well-wishing instead!
* Please visit http://iharder.net/base64
* periodically to check for updates or to contribute improvements.
*
*
* @author Robert Harder
* @author rob@iharder.net
* @version 2.3.7
*/

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* /resteasy-jaxrs-3-0-6-final-sources-jar/org/jboss/resteasy/util/Base64.java
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/**
* Any exception thrown by a MessageBodyWriter chain that is not an instance of a WriterException is caught internally
* by the Resteasy runtime and wrapped with an instance of WriterException.
*
* If you want to have special exception handling for exceptions thrown by MessageBodyWriters and their interceptors, then write an exception
* mapper for WriterException.
*
* Also, you may extend this class and throw instances of it from your MessageBodyWriters (and interceptors)
*
* @author Bill Burke
* @version $Revision: 1 $
*/

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1.12 jzlib 1.1.3

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* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Inflater.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/DeflaterOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZInputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZOutputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/JZlib.java
*
/jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InflaterInputStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/GZIPException.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/CRC32.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InfBlocks.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Checksum.java
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* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZStreamException.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/StaticTree.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/InfTree.java
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* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/ZStream.java
* /jzlib-1-1-3-sources-zip/com/jcraft/jzlib/Adler32.java

1.13 tiger-types 1.4

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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/routing/TransformableData.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/ServerConfig.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/InvocableValidator.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/scanning/ResourceFinderException.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/routing/Routers.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/process/RespondingContext.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/inject/AsyncResponseValueFactoryProvider.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/spi/internal/ValueFactoryProvider.java
*
 /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/scanning/UriSchemeResourceFinderFactory.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/spi/AbstractContainerLifecycleListener.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/spi/internal/ResourceMethodInvocationHandlerProvider.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/ResourceFinder.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/scanning/FileSchemeResourceFinderFactory.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/ManagedAsync.java

* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/spi/ComponentProvider.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/inject/ParamInjectionResolver.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/Suspendable.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/ResourceMethodConfig.java
*
/jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/routing/PushMatchedUriRouter.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/scanning/VfsSchemeResourceFinderFactory.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/Consuming.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/process/Endpoint.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/scanning/BundleSchemeResourceFinderFactory.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/scanning/ResourceProcessor.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/scanning/FilesScanner.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/filter/package-info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/scanning/ResourceFinderStack.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/process/AsyncContext.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/routing/Route.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/model/internal/ResourceMethodInvocationHandlerFactory.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/routing/RoutedInflectorExtractorStage.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/ContainerMessageBodyWorkersInitializer.java
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*/
/**
    * Obtain a {@link InputStream} of the jar file.
    * <p>
    * For most platforms the format for the zip or jar follows the form of
    * the <a href="http://docs.sun.com/source/819-0913/author/jar.html#jarprotocol"jar protcol.</a></p>
    * <ul>
    *   <li><code>jar:file:///tmp/fishfingers.zip!/example.txt</code></li>
    *   <li><code>zip:http://www.example.com/fishfingers.zip!/example.txt</code></li>
    * </ul>
    * <p>
    * On versions of the WebLogic application server a proprietary format is
    * supported of the following form, which assumes a zip file located on
    * the local file system:
    * </p>
    * <ul>
    *   <li><code>zip:/tmp/fishfingers.zip!/example.txt</code></li>
    *   <li><code>zip:d:/tempfishfingers.zip!/example.txt</code></li>
    * </ul>
    * <p>
    * This method will first attempt to create a {@link InputStream} as follows:
    * <pre>
    *   new URL(jarUrlString).openStream();
     * </pre>
    * if that fails with a {@link java.net.MalformedURLException} then the method will
    * attempt to create a {@link InputStream} instance as follows:
    * <pre>
    *  return new new FileInputStream(
```

```
   *      UriComponent.decode(jarUrlString, UriComponent.Type.PATH)));
   * </pre>
   *
   * @param jarUrlString the raw scheme specific part of a URI minus the jar
   *        entry
   * @return a {@link InputStream}.
   * @throws IOException if there is an error opening the stream.
   */
```

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* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/routing/PushMatchedRuntimeResourceRouter.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/internal/WadlUtils.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/MonitoringStatisticsProcessor.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/package-info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/ClientBinding.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/ExceptionMapperMXBeanImpl.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ApplicationMXBean.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/package-info.java
*
 /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/routing/PushMatchedTemplateRouter.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/RuntimeExecutorsBinder.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/RuntimeResourceModel.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/MonitoringFeature.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/TimeWindowStatisticsImpl.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/MappableExceptionWrapperInterceptor.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/WadlFeature.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ApplicationEvent.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/jmx/ResponseMXBeanImpl.java
*
 /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/TimeWindowStatistics.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/filter/internal/ServerFiltersAutoDiscoverable.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/package-info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ResourceMethodStatistics.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ApplicationEventListener.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/RequestEventImpl.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/ExecutionStatisticsImpl.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/TracingConfig.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ResourceMethodMXBean.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/RequestEventBuilder.java
*
 /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ResponseStatistics.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/model/package-
info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/MonitoringStatisticsListener.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/ResourceMethodStatisticsImpl.java

* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/internal/ModelHelper.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/ModelProcessor.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/ResourceStatisticsImpl.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/ExecutionStatisticsDynamicBean.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ExceptionMapperMXBean.java
*
/jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/config/package-info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/processor/package-info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/internal/package-info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/ProcessingProviders.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/ResponseStatisticsImpl.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ResponseMXBean.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/jmx/ResourceMxBeanImpl.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/MonitoringAutodiscoverable.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/process/package-info.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/jmx/ResourceMethodMXBeanImpl.java
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/jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ExecutionStatistics.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/ExceptionMapperStatisticsImpl.java
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jar/org/glassfish/jersey/server/internal/monitoring/CompositeApplicationEventListener.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/ExtendedResource.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/internal/generators/package-info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/MonitoringUtils.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/RequestEvent.java
*
/jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ExceptionMapperStatistics.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/JerseyRequestTimeoutHandler.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/internal/package-info.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/MonitoringStatistics.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/internal/monitoring/CompositeRequestEventListener.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/ApplicationStatisticsImpl.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/RuntimeResourceModelValidator.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/RequestEventListener.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/MonitoringContainerListener.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/monitoring/EmptyRequestEventBuilder.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/monitoring/ExtendedMonitoringStatisticsListener.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/internal/ModelProcessorUtil.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/ParamException.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/internal/ResourceMethodDispatcherFactory.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/internal/generators/ApplicationDocs.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/model/ResourceDocType.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/xhtml/XhtmlValueType.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/spi/package-info.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/inject/PrimitiveMapper.java
* /jersey-server-2-5-1-sources-
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* /jersey-server-2-5-1-sources-
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/internal/generators/ObjectFactory.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/model/WadlParamType.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/routing/SingleMatchResult.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/WadlGenerator.java
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jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/model/RequestDocType.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/ResourceModelComponent.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/routing/PatternRouter.java
* /jersey-server-2-5-1-sources-
jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/model/RepresentationDocType.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/Uri.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/model/Parameter.java
* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/ServerBinder.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/filter/UriConnegFilter.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/spi/ContainerResponseWriter.java
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* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/internal/WadlResource.java

* /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/internal/inject/SingleStringValueExtractor.java
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 /jersey-server-2-5-1-sources-jar/org/glassfish/jersey/server/wadl/config/WadlGeneratorConfig.java
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* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/package-info.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/filter/CsrfProtectionFilter.java
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Found in path(s):
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* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/JerseyClientBuilder.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ResponseCallback.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/JerseyWebTarget.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ClientRequest.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/CustomProvidersFeature.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ClientBinder.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ClientRuntime.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ClientConfig.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/filter/EncodingFeature.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/RequestProcessingInitializationStage.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/spi/Connector.java
*
 /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/AbortException.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ClientProperties.java

* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ChunkedInput.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ClientAsyncExecutorFactory.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ClientResponse.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ClientFilteringStages.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/InboundJaxrsResponse.java
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* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/filter/HttpDigestAuthFilter.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/filter/HttpBasicAuthFilter.java
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* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/JerseyClient.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/JerseyInvocation.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/HttpUrlConnector.java
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* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/spi/ConnectorProvider.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/RequestEntityProcessing.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/authentication/HttpAuthenticationFeature.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/authentication/HttpAuthenticationFilter.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/spi/package-info.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/authentication/BasicAuthenticator.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/HttpUrlConnectorProvider.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/authentication/DigestAuthenticator.java
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* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ChunkedInputReader.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/filter/package-info.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/spi/AsyncConnectorCallback.java
* /jersey-client-2-5-1-sources-jar/org/glassfish/jersey/client/ChunkParser.java

1.16 animal-sniffer-annotation 1.14

1.16.1 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/66" />
<meta name="Generator" content="Drupal 7 (http://drupal.org)" />
<link rel="canonical" href="/licenses/MIT" />
<meta name="MobileOptimized" content="width" />
 <title>The MIT License | Open Source Initiative</title>
 <link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_xE-rWrJf-fncB6ztZfd2huxqgxu4WO-qwma6Xer30m4.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_4p37TiWeuzRfdymI_lPgCuu6wEwSDhUquxUkHLI7QnU.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_MnXiytJtb186Ydycnpwpw34cuUsHaKc80ey5LiQXhSY.css" media="all" />
<link type="text/css" rel="stylesheet" href="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootstrap.min.css" media="all" />
<link type="text/css" rel="stylesheet" href="https://opensource.org/files/css/css_KGZcOm3i1wmtbgZsjo-3V9FM4wZ-5UDcpJ7Vfzmt45E.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?ooglib" media="all" />
<![endif]-->

```
 <!-- HTML5 element support for IE6-8 -->
 <!--[if lt IE 9]>
   <script src="//html5shiv.googlecode.com/svn/trunk/html5.js"></script>
 <![endif]-->
 <script type="text/javascript" src="//code.jquery.com/jquery-1.10.2.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
window.jQuery || document.write("<script
 src='/sites/all/modules/jquery_update/replace/jquery/1.10/jquery.min.js'>\x3C/script>")
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_aczm2rRgH_slWBPnvD3KMrK7rwa1i99HOq8IUAb99Co.js"></script>
<script type="text/javascript" src="//maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery(document).ready(function($) {
  $(window).scroll(function() {
   if($(this).scrollTop() != 0) {
    $("#toTop").fadeIn();
   } else {
    $("#toTop").fadeOut();
   }
  });

  $("#toTop").click(function() {
   $("body,html").animate({scrollTop:0},800);
  });

  });
//--><!]]>
</script>
<script type="text/javascript"
src="https://opensource.org/files/js/js_ruOYJN6FkJU2O5L1dAKVnDloSn5R6LjnLW88zFxS1Uw.js"></script>
<script type="text/javascript" src="https://opensource.org/files/js/js_JQHTvV_SkyFlN3f2BnQwnusF-
eI6tkX8wrKAk2siiZU.js"></script>
<script type="text/javascript">
<!--//--><![CDATA[//><!--
jQuery.extend(Drupal.settings,
{"basePath":"\/","pathPrefix":"","ajaxPageState":{"theme":"bootstrap_business","theme_token":"s2vZViqeD3l9Fq1
EBk624uZGzbS0vJ_7HPPuTvDaaeA","js":{"\/\/code.jquery.com\/jquery-
1.10.2.min.js":1,"0":1,"misc\/jquery.once.js":1,"misc\/drupal.js":1,"\/\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/js
\/bootstrap.min.js":1,"1":1,"sites\/all\/libraries\/superfish\/jquery.hoverIntent.minified.js":1,"sites\/all\/libraries\/supe
rfish\/sftouchscreen.js":1,"sites\/all\/libraries\/superfish\/sfsmallscreen.js":1,"sites\/all\/libraries\/superfish\/supposit
on.js":1,"sites\/all\/libraries\/superfish\/superfish.js":1,"sites\/all\/libraries\/superfish\/supersubs.js":1,"sites\/all\/mod
ules\/superfish\/superfish.js":1,"sites\/all\/themes\/bootstrap-
```

business\/js\/jquery.browser.min.js":1},"css":{"modules\/system\/system.base.css":1,"modules\/system\/system.menus.css":1,"modules\/system\/system.messages.css":1,"modules\/system\/system.theme.css":1,"modules\/aggregator\/aggregator.css":1,"modules\/comment\/comment.css":1,"modules\/field\/theme\/field.css":1,"sites\/all\/modules\/mollom\/mollom.css":1,"modules\/node\/node.css":1,"modules\/search\/search.css":1,"modules\/user\/user.css":1,"sites\/all\/modules\/views\/css\/views.css":1,"sites\/all\/modules\/ctools\/css\/ctools.css":1,"\/\/maxcdn.bootstrapcdn.com\/bootstrap\/3.2.0\/css\/bootstrap.min.css":1,"sites\/all\/libraries\/superfish\/css\/superfish.css":1,"sites\/all\/themes\/bootstrap-business\/css\/style.css":1,"sites\/all\/themes\/bootstrap-business\/color\/colors.css":1,"sites\/all\/themes\/bootstrap-business\/css\/local.css":1,"sites\/all\/themes\/bootstrap-business\/css\/ie8.css":1}},"urlIsAjaxTrusted":{"\/licenses\/mit-license.php":true},"superfish":{"1":{"id":"1","sf":{"animation":{"opacity":"show","height":"show"},"speed":"\u0027fast\u0027","autoArrows":false,"dropShadows":true,"disableHI":false},"plugins":{"touchscreen":{"mode":"window_width"},"smallscreen":{"mode":"window_width","addSelected":false,"menuClasses":false,"hyperlinkClasses":false,"title":"Navigation"},"supposition":true,"bgiframe":false,"supersubs":{"minWidth":"12","maxWidth":"27","extraWidth":1}}}}});
//--><!]]>
</script>
</head>
<body
class="html not-front not-logged-in no-sidebars page-node page-node- page-node-66 node-type-page" >

Skip to main content

<!-- #header-top -->

<!-- #header-top-inside -->

<!-- #header-top-left -->

<div
id="block-menu-secondary-menu" class="block block-menu clearfix">

<ul class="menu"><li class="first leaf">Home
<li class="leaf">From the Board
<li class="leaf">Contact
<li class="last leaf">Donate


```
</div>
 </div>
            </div>
            <!-- EOF:#header-top-left -->
          </div>

                 <div class="col-md-4">
            <!-- #header-top-right -->
            <div id="header-top-right" class="clearfix">
                <div class="region region-header-top-right">
  <div id="block-search-form" class="block block-search clearfix">


 <div class="content">
  <form action="/licenses/mit-license.php" method="post" id="search-block-form" accept-charset="UTF-
8"><div><div class="container-inline">
    <h2 class="element-invisible">Search form</h2>
  <div class="form-item form-type-textfield form-item-search-block-form">
<input onblur="if (this.value == &#039;&#039;) {this.value = &#039;Search this website...&#039;;}" onfocus="if
(this.value == &#039;Search this website...&#039;) {this.value = &#039;&#039;;}" type="text" id="edit-search-
block-form--2" name="search_block_form" value="Search this website..." size="15" maxlength="128"
class="form-text" />
</div>
<div class="form-actions form-wrapper" id="edit-actions"><input value="" type="submit" id="edit-submit"
name="op" class="form-submit" /></div><input type="hidden" name="form_build_id" value="form-
3fdl1mgwpFzazdhVEs8DfK2cR3DKGD4vTlh3TguBqjQ" />
<input type="hidden" name="form_id" value="search_block_form" />
</div>
</div></form>  </div>
</div>
 </div>
            </div>
            <!-- EOF:#header-top-right -->
          </div>

          </div>
      </div>
      <!-- EOF: #header-top-inside
 -->

  </div>
</div>
<!-- EOF: #header-top -->

<!-- header -->
<header id="header" role="banner" class="clearfix">
  <div class="container">
```

```
      <!-- #header-inside -->
      <div id="header-inside" class="clearfix">
        <div class="row">
          <div class="col-md-8">

                    <div id="logo">
          <a href="/" title="Home" rel="home"> <img
src="https://opensource.org/files/osi_keyhole_300X300_90ppi_0.png" alt="Home" /> </a>
          </div>

                    <div id="site-name">
          <a href="/" title="Home">Open Source Initiative</a>
          </div>


          </div>

          <div class="col-md-4">


          </div>
        </div>
      </div>
      <!-- EOF: #header-inside -->

  </div>
</header>
<!-- EOF:
 #header -->

<!-- #main-navigation -->
<div id="main-navigation" class="clearfix">
  <div class="container">

      <!-- #main-navigation-inside -->
      <div id="main-navigation-inside" class="clearfix">
        <div class="row">
          <div class="col-md-12">
            <nav role="navigation">
                              <div class="region region-navigation">
  <div id="block-superfish-1" class="block block-superfish clearfix">


 <div class="content">
  <ul id="superfish-1" class="menu sf-menu sf-navigation sf-horizontal sf-style-none sf-total-items-6 sf-parent-
items-6 sf-single-items-0"><li id="menu-37-1" class="first odd sf-item-1 sf-depth-1 sf-total-children-4 sf-parent-
children-2 sf-single-children-2 menuparent"><a href="/about" title="About the Open Source Initiative" class="sf-
depth-1 menuparent">About</a><ul><li id="menu-75-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a
```

href="/history" title="History
of the OSI" class="sf-depth-2">History
<li id="menu-82-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-7 sf-parent-children-0 sf-single-children-7 menuparent">Board
<li id="menu-83-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Board - Annotated
<li id="menu-96-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Minutes
<li id="menu-185-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Organization & Operations
<li id="menu-95-1" class="middle even sf-item-4 sf-depth-3 sf-no-children">Articles
of Incorporation
<li id="menu-1475-1" class="middle odd sf-item-5 sf-depth-3 sf-no-children">Board Elections
<li id="menu-84-1" class="middle even sf-item-6 sf-depth-3 sf-no-children">Bylaws
<li id="menu-1317-1" class="last odd sf-item-7 sf-depth-3 sf-no-children">Conflict of Interest
<li id="menu-1843-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Trademark & Logo
<li id="menu-184-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Trademark Guidelines
<li id="menu-183-1" class="last even sf-item-2 sf-depth-3
sf-no-children">Logo Guidelines
<li id="menu-126-1" class="last even sf-item-4 sf-depth-2 sf-no-children">Terms of Service
<li id="menu-65-1" class="middle even sf-item-2 sf-depth-1 sf-total-children-5 sf-parent-children-3 sf-single-children-2 menuparent">Licenses
<li id="menu-61-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Open Source Definition
<li id="menu-62-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children"><a href="/osd-annotated" title="The OSD with explationations and rationale interspersed."
class="sf-depth-3">OSD - Annotated
<li id="menu-77-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Licenses by Category
<li id="menu-72-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Licenses by Name
<li id="menu-66-1" class="middle even sf-item-4 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">License Review Process
<li id="menu-67-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Licence Proliferation
<li id="menu-69-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a href="/proliferation-report"
title="License Proliferation Committee's report to the OSI Board" class="sf-depth-3">LP report to the Board
<li id="menu-99-1" class="last odd sf-item-5 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Open Standards
<li id="menu-101-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">The Open Standards Requirement
<li id="menu-102-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Open

Standards Requirement Compliance
<li id="menu-100-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Open Standards Requirement Rationale
<li id="menu-103-1" class="last
even sf-item-4 sf-depth-3 sf-no-children">OSR Frequently Asked Questions
<li id="menu-1842-1" class="middle odd sf-item-3 sf-depth-1 sf-total-children-3 sf-parent-children-2 sf-single-children-1 menuparent">Membership
<li id="menu-914-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-1 sf-parent-children-0 sf-single-children-1 menuparent">Individuals
<li id="menu-897-1" class="firstandlast odd sf-item-1 sf-depth-3 sf-no-children">Join
<li id="menu-675-1" class="middle even sf-item-2 sf-depth-2 sf-total-children-3 sf-parent-children-0 sf-single-children-3 menuparent"><a href="/affiliates"
title="Home page for OSI's membership scheme for non-profits and not-for-profits" class="sf-depth-2 menuparent">Affiliates
<li id="menu-676-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">Become an Affiliate
<li id="menu-677-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">List of Affiliates
<li id="menu-2071-1" class="last odd sf-item-3 sf-depth-3 sf-no-children">Affiliate Criteria
<li id="menu-1436-1" class="last odd sf-item-3 sf-depth-2 sf-no-children">Sponsors & Support
<li id="menu-1841-1" class="middle even sf-item-4 sf-depth-1 sf-total-children-4 sf-parent-children-1 sf-single-children-3 menuparent"><a href="/community" title="Page
for our various community members." class="sf-depth-1 menuparent">Community
<li id="menu-63-1" class="first odd sf-item-1 sf-depth-2 sf-total-children-4 sf-parent-children-0 sf-single-children-4 menuparent">Mailing lists
<li id="menu-78-1" class="first odd sf-item-1 sf-depth-3 sf-no-children">General Code of Conduct
<li id="menu-1072-1" class="middle even sf-item-2 sf-depth-3 sf-no-children">Licensing Code of Conduct
<li id="menu-2111-1" class="middle odd sf-item-3 sf-depth-3 sf-no-children">Disclaimer for OSI Public Forums
<li id="menu-2110-1" class="last even sf-item-4 sf-depth-3 sf-no-children">Policy
on Public Communications and Archives
<li id="menu-2032-1" class="middle even sf-item-2 sf-depth-2 sf-no-children">Volunteers
<li id="menu-1846-1" class="middle odd sf-item-3 sf-depth-2 sf-no-children">Wiki
<li id="menu-1524-1" class="last even sf-item-4 sf-depth-2 sf-no-children">OSI Store
<li id="menu-1840-1" class="middle odd sf-item-5 sf-depth-1 sf-total-children-5 sf-parent-children-1 sf-single-children-4 menuparent">Resources
<li id="menu-342-1" class="first odd sf-item-1 sf-depth-2 sf-no-children">FAQ
<li id="menu-38-1" class="middle even sf-item-2 sf-depth-2 sf-no-children"><a
href="/blog" title="A group blog / aggregation point for OSI Board Member blogs" class="sf-depth-2">OSI Board Blog
<li id="menu-45-1" class="middle odd sf-item-3 sf-depth-2 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent">Getting Help
<li id="menu-76-1" class="first odd sf-item-1 sf-depth-3 sf-no-children"><a href="/links" title="Links and References to Open Source" class="sf-depth-

```
3">Bibliography</a></li><li id="menu-125-1" class="last even sf-item-2 sf-depth-3 sf-no-children"><a
href="/advocacy/case_for_business.php" title="How to advocate Open Source to businesses" class="sf-depth-
3">Open Source Case for Business</a></li></ul></li><li id="menu-1514-1" class="middle even sf-item-4 sf-
depth-2 sf-no-children"><a href="/working_groups" class="sf-depth-2">Working Groups</a></li><li id="menu-
12-1" class="last odd sf-item-5 sf-depth-2
 sf-no-children"><a href="/osi-open-source-education" title="OSI&amp;#039;s Open Source Education Initiative and
Activities" class="sf-depth-2">Open Source Education</a></li></ul></li><li id="menu-1844-1" class="last even
sf-item-6 sf-depth-1 sf-total-children-2 sf-parent-children-0 sf-single-children-2 menuparent"><a href="/news"
title="Page dedicated to the latest news and events." class="sf-depth-1 menuparent">News & Events</a><ul><li
id="menu-1845-1" class="first odd sf-item-1 sf-depth-2 sf-no-children"><a href="/newsletters" title="Index of
newsletters" class="sf-depth-2">Newsletters</a></li><li id="menu-1999-1" class="last even sf-item-2 sf-depth-2
sf-no-children"><a href="/events" class="sf-depth-2">Events</a></li></ul></li></ul>  </div>
</div>
 </div>
                                </nav>
            </div>
          </div>
      </div>
      <!-- EOF: #main-navigation-inside -->

  </div>
</div>
<!-- EOF: #main-navigation -->


<!-- #page -->
<div id="page"
 class="clearfix">


  <!-- #main-content -->
  <div id="main-content">
     <div class="container">

        <!-- #messages-console -->
                <!-- EOF: #messages-console -->

        <div class="row">



           <section class="col-md-12">

              <!-- #main -->
              <div id="main" class="clearfix">
```

```
                <!-- EOF:#content-wrapper -->
                <div id="content-wrapper">

                                                        <h1 class="page-title">The MIT License</h1>


                    <!-- #tabs -->
                                        <div class="tabs">

                </div>
                                        <!-- EOF: #tabs -->

                    <!-- #action links -->
                                        <!-- EOF: #action links -->

                     <div class="region region-content">
  <div id="block-system-main" class="block block-system clearfix">


 <div class="content">
  <article id="node-66" class="node node-page clearfix">


 <div class="content">
  <div class="field field-name-body field-type-text-with-summary field-label-hidden"><div class="field-
items"><div class="field-item even"><p style="font-weight:bold">
SPDX short identifier: MIT
</p>

<div align="right">
<button onclick="myFunction()">Further resources on the <b>MIT License</b></button>

<p id="demo"></p>

<script>
<!--//--><![CDATA[// ><!--

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
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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 = "<br><p>The following are other community resources that may be helpful:<br><br><a
href=https://tldrlegal.com/license/mit-license style='font-weight: bold;'>The MIT License on TLDRLegal<br><a
```

href=http://www.gnu.org/licenses/license-list.en.html>GNU License List
<a
href=https://en.wikipedia.org/wiki/Comparison_of_free_and_open-source_software_licenses>Wikipedia
License List
<a href=http://oss-watch.ac.uk/apps/licdiff/>OSSWatch License Diff
<a
href=choosealicense.com>Choosealicense";
} else {
x = " ";
}
document.getElementById("demo").innerHTML = x;
}

//--><!]]>
</script>

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</article>

<!-- EOF:#content-wrapper -->

```
            <!-- EOF:#main -->

          </section>


        </div>

      </div>
    </div>
    <!-- EOF:#main-content -->


</div>
<!-- EOF:#page -->


<footer id="subfooter" class="clearfix">
  <div class="container">

    <!-- #subfooter-inside -->
    <div id="subfooter-inside" class="clearfix">
      <div class="row">
        <div class="col-md-12">
          <!-- #subfooter-left -->
          <div class="subfooter-area">


                            <div class="region region-footer">
  <div id="block-block-11" class="block block-block clearfix">


 <div class="content">
  <div class="filler" style="vertical-align: middle; display: inline-block;">
<p style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align: middle;">
<a href="https://twitter.com/OpenSourceOrg" style="margin: 0pt auto; display: table-cell; text-align: center;
vertical-align: middle;"><img src="/files/twitterlogo.png" width="50" style="margin: 0pt auto; display: table-cell;
text-align: center; vertical-align: middle;" /></a>

<a href="https://plus.google.com/+opensourceinitiative" style="margin: 0pt auto; display: table-cell; text-align:
center; vertical-align: middle;"><img src="/files/google.png" width="50" style="margin:
 0pt auto; display: table-cell; text-align: center; vertical-align: middle;" /></a>

<a href="https://www.linkedin.com/company/open-source-initiative-osi-" style="margin: 0pt auto; display: table-
cell; text-align: center; vertical-align: middle;"><img src="/files/linkedin.png" width="50" style="margin: 0pt auto;
display: table-cell; text-align: center; vertical-align: middle;" /></a>

<a href="http://wiki.opensource.org" style="margin: 0pt auto; display: table-cell; text-align: center; vertical-align:
middle;"><img src="/files/xwikilogo.png" width="50" style="margin: 0pt auto; display: table-cell; text-align:
```

center; vertical-align: middle;" />

<script id="fbwiuwz">
<!--//--><![CDATA[// ><!--
(function(i){var
f,s=document.getElementById(i);f=document.createElement('iframe');f.src='//api.flattr.com/button/view/?uid=osi&url=http%3A%2F%2Fopensource.org';f.title='Flattr';f.height=70;f.width=70;f.style.borderWidth=0;s.parentNode.insertBefore(f,s);})('fbwiuwz');
//--><!]]>
</script>

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   <script src="https://www.google-analytics.com/urchin.js" type="text/javascript">
<!--//--><![CDATA[// ><!--

//--><!]]>
</script><script type="text/javascript">
<!--//--><![CDATA[// ><!--

_uacct = "UA-3916956-1";
urchinTracker();

//--><!]]>
</script>

```
            <!-- EOF: #subfooter-left -->
          </div>
        </div>
      </div>
      <!-- EOF: #subfooter-inside -->

  </div>
</footer>
<!-- EOF:#subfooter -->
 </body>
</html>
```

1.17 slf4j 1.7.25

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1.18 protobuf-java-util 3.4.0

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* /protobuf-java-util-3-4-0-sources-jar/com/google/protobuf/util/FieldMaskTree.java
* /protobuf-java-util-3-4-0-sources-jar/com/google/protobuf/util/FieldMaskUtil.java
* /protobuf-java-util-3-4-0-sources-jar/com/google/protobuf/util/JsonFormat.java
* /protobuf-java-util-3-4-0-sources-jar/com/google/protobuf/util/Durations.java
*
/protobuf-java-util-3-4-0-sources-jar/com/google/protobuf/util/Timestamps.java
* /protobuf-java-util-3-4-0-sources-jar/com/google/protobuf/util/TimeUtil.java

1.19 json-simple 1.1.1

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1.20 raml-parser 0.8.7

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Found in path(s):
* /raml-parser-0-8-7-sources-jar/org/raml/parser/builder/ScalarTupleBuilder.java
* /raml-parser-0-8-7-sources-jar/org/raml/parser/rule/UriParametersRule.java
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1.22 gson 2.7

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1.23 httpcomponents-client 4.5.5

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1.24 j2objc-annotations 1.1

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*/

package java.security;

import java.io.Serializable;

/**
* Legacy security code; do not use.
*/
public abstract class Permission implements Guard, Serializable {
   public Permission(String
 name) { }

   public final String getName() { return null; }

   public void checkGuard(Object obj) throws SecurityException { }

   public PermissionCollection newPermissionCollection() {
      return new AllPermissionCollection();
   }

   public abstract String getActions();

   public abstract boolean implies(Permission permission);
}
```

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1.25 okhttp 3.10.0

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1.26 reflections 0.9.11

1.26.1 Available under license :

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Manifest-Version: 1.0
Bundle-Description: Reflections - a Java runtime metadata analysis
Bundle-License: http://www.wtfpl.net/, http://www.opensource.org/licen
ses/bsd-license.html
Bundle-SymbolicName: org.reflections
Archiver-Version: Plexus Archiver
Built-By: ron
Bnd-LastModified: 1490358733199
Bundle-ManifestVersion: 2
Import-Package: com.google.common.base;version="[20.0,21)",com.google.

common.collect;version="[20.0,21)",com.google.common.io;version="[20.
0,21)",com.google.common.util.concurrent;version="[20.0,21)",com.goog
le.gson;resolution:=optional,javassist;version="[3.21,4)",javassist.b
ytecode;version="[3.21,4)",javassist.bytecode.annotation;version="[3.
21,4)",javassist.expr;version="[3.21,4)",javax.annotation;version="[3
.0,4)",javax.servlet;resolution:=optional,org.dom4j;resolution:=optio
nal,org.dom4j.io;resolution:=optional,org.reflections,org.reflections
.adapters,org.reflections.scanners,org.reflections.serializers,org.re
flections.util,org.reflections.vfs,org.slf4j;version="[1.7,2)";resolu
tion:=optional
Require-Capability: osgi.ee;filter:="(&(osgi.ee=JavaSE)(version=1.7))"
Tool: Bnd-3.2.0.201605172007
Export-Package: org.reflections;uses:="com.google.common.base,com.goog
le.common.collect,javax.annotation,org.reflections.adapters,org.refle
ctions.scanners,org.reflections.serializers,org.slf4j";version="0.9.1
1",org.reflections.adapters;uses:="javassist.bytecode,javax.annotatio
n,org.reflections.vfs";version="0.9.11",org.reflections.scanners;uses
:="com.google.common.base,com.google.common.collect,javax.annotation,
org.reflections,org.reflections.adapters,org.reflections.vfs";version
="0.9.11",org.reflections.serializers;uses:="org.reflections";version
="0.9.11",org.reflections.util;uses:="com.google.common.base,javax.an
notation,javax.servlet,org.reflections,org.reflections.adapters,org.r
eflections.scanners,org.reflections.serializers,org.slf4j";version="0
.9.11",org.reflections.vfs;uses:="com.google.common.base,javax.annota
tion";version="0.9.11"
Bundle-Name: Reflections
Bundle-Version: 0.9.11
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_101

Found in path(s):
* /reflections-0-9-11-jar/META-INF/MANIFEST.MF
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Found in path(s):
* /reflections-0-9-11-jar/META-INF/maven/org.reflections/reflections/pom.xml

1.27 metrics-json 4.0.2

1.28 simpleframework-simple-xml 2.7.3

1.29 guava 24.1-jre

1.30 restlet 2.4.0

1.31 glibc 2.28

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/* $Id: LoaderFromClass.java 472842 2006-11-09 10:19:56Z skitching $
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/* $Id: LoaderFromStream.java 471661 2006-11-06 08:09:25Z skitching $
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* /commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/FinderFromDfltResource.java
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17 20:00:50Z rahul $

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* /commons-digester-1-8-sources-jar/org/apache/commons/digester/substitution/VariableExpander.java
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* /commons-digester-1-8-sources-jar/org/apache/commons/digester/plugins/strategies/package.html
* /commons-digester-1-8-sources-jar/org/apache/commons/digester/xmlrules/package.html
* /commons-digester-1-8-sources-jar/org/apache/commons/digester/xmlrules/digester-rules.dtd
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1.40 backport-util-concurrent 3.1

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1.41 protobuf-java 3.4.0

1.42 json-java 20180130

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1.43 mime-pull 1.9.7

1.44 saaj 1.4.0

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1.45 apr 1.6.5

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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:

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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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1.46 xerces-j 2.7.1

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1.47 ghodss-yaml 1.0.0

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1.48 iconv 2.28

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 /validation-api-1-1-0-final-sources-jar/javax/validation/constraints/DecimalMax.java
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1.57 libverto 0.3.0-5.el8

1.57.1 Available under license :

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1.58 perl-file-path 2.15-2.el8

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---
abstract: 'Create or remove directory trees'
author:
 - unknown
build_requires:
 Carp: '0'
 Config: '0'
 Errno: '0'
 ExtUtils::MakeMaker: '0'
 Fcntl: '0'
 File::Spec::Functions: '0'
 SelectSaver: '0'
 Test::Simple: '0.44'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: File-Path
no_index:
 directory:
   - t
   - inc
requires:
 Cwd: '0'

Exporter: '0'
File::Basename: '0'
File::Spec: '0'
resources:
repository: https://github.com/jkeenan/File-Path.git
version: '2.15'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /perl-File-Path-2.15-2.el8.src.rpm-cosi-expand-archive-AW8PKhem/File-Path-2.15.tar.gz-cosi-expand-archive-jmkwhKy1/File-Path-2.15/META.yml
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Found in path(s):
* /perl-File-Path-2.15-2.el8.src.rpm-cosi-expand-archive-AW8PKhem/perl-File-Path.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Path - Create or remove directory trees

=head1 VERSION

2.15 - released June 07 2017.

=head1 SYNOPSIS

```
  use File::Path qw(make_path remove_tree);

  @created = make_path('foo/bar/baz', '/zug/zwang');
  @created = make_path('foo/bar/baz', '/zug/zwang', {
     verbose => 1,
     mode => 0711,
  });
  make_path('foo/bar/baz', '/zug/zwang', {
     chmod => 0777,
  });

  $removed_count = remove_tree('foo/bar/baz', '/zug/zwang', {
     verbose => 1,
     error  => \my $err_list,
     safe => 1,
  });

  # legacy (interface promoted before v2.00)
  @created = mkpath('/foo/bar/baz');
```

```
  @created = mkpath('/foo/bar/baz', 1, 0711);
  @created = mkpath(['/foo/bar/baz', 'blurfl/quux'], 1, 0711);
  $removed_count = rmtree('foo/bar/baz', 1, 1);
  $removed_count = rmtree(['foo/bar/baz', 'blurfl/quux'], 1, 1);

  # legacy (interface promoted before v2.06)
  @created
 = mkpath('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
  $removed_count = rmtree('foo/bar/baz', '/zug/zwang', { verbose => 1, mode => 0711 });
```

=head1 DESCRIPTION

This module provides a convenient way to create directories of
arbitrary depth and to delete an entire directory subtree from the
filesystem.

The following functions are provided:

=over

=item make_path($dir1, $dir2, ...)

=item make_path($dir1, $dir2, ..., \%opts)

The C<make_path> function creates the given directories if they don't
exist before, much like the Unix command C<mkdir -p>.

The function accepts a list of directories to be created. Its
behaviour may be tuned by an optional hashref appearing as the last
parameter on the call.

The function returns the list of directories actually created during
the call; in scalar context the number of directories created.

The following keys are recognised in the option hash:

=over

=item mode => $num

The numeric permissions mode to apply to each
 created directory
(defaults to C<0777>), to be modified by the current C<umask>. If the
directory already exists (and thus does not need to be created),
the permissions will not be modified.

C<mask> is recognised as an alias for this parameter.

=item chmod => $num

Takes a numeric mode to apply to each created directory (not
modified by the current C<umask>). If the directory already exists
(and thus does not need to be created), the permissions will
not be modified.

=item verbose => $bool

If present, will cause C<make_path> to print the name of each directory
as it is created. By default nothing is printed.

=item error => \$err

If present, it should be a reference to a scalar.
This scalar will be made to reference an array, which will
be used to store any errors that are encountered. See the L</"ERROR
HANDLING"> section for more information.

If this parameter is not used, certain error conditions may raise
a fatal error that will cause the program to halt, unless trapped
in
 an C<eval> block.

=item owner => $owner

=item user => $owner

=item uid => $owner

If present, will cause any created directory to be owned by C<$owner>.
If the value is numeric, it will be interpreted as a uid; otherwise a
username is assumed. An error will be issued if the username cannot be
mapped to a uid, the uid does not exist or the process lacks the
privileges to change ownership.

Ownership of directories that already exist will not be changed.

C<user> and C<uid> are aliases of C<owner>.

=item group => $group

If present, will cause any created directory to be owned by the group
C<$group>. If the value is numeric, it will be interpreted as a gid;
otherwise a group name is assumed. An error will be issued if the
group name cannot be mapped to a gid, the gid does not exist or the
process lacks the privileges to change group ownership.

Group ownership of directories that already exist will not be changed.

```
  make_path '/var/tmp/webcache', {owner=>'nobody', group=>'nogroup'};
```

=back

=item
mkpath($dir)

=item mkpath($dir, $verbose, $mode)

=item mkpath([$dir1, $dir2,...], $verbose, $mode)

=item mkpath($dir1, $dir2,..., \%opt)

The C<mkpath()> function provide the legacy interface of
C<make_path()> with a different interpretation of the arguments
passed. The behaviour and return value of the function is otherwise
identical to C<make_path()>.

=item remove_tree($dir1, $dir2, ...)

=item remove_tree($dir1, $dir2, ..., \%opts)

The C<remove_tree> function deletes the given directories and any
files and subdirectories they might contain, much like the Unix
command C<rm -rf> or the Windows commands C<rmdir /s> and C<rd /s>.

The function accepts a list of directories to be removed. (In point of fact,
it will also accept filesystem entries which are not directories, such as
regular files and symlinks. But, as its name suggests, its intent is to
remove trees rather than individual files.)

C<remove_tree()>'s behaviour may be tuned by an optional
hashref
appearing as the last parameter on the call. If an empty string is
passed to C<remove_tree>, an error will occur.

B<NOTE:> For security reasons, we strongly advise use of the
hashref-as-final-argument syntax -- specifically, with a setting of the C<safe>
element to a true value.

```
  remove_tree( $dir1, $dir2, ....,
     {
        safe => 1,
        ...         # other key-value pairs
     },
  );
```

The function returns the number of files successfully deleted.

The following keys are recognised in the option hash:

=over

=item verbose => $bool

If present, will cause C<remove_tree> to print the name of each file as
it is unlinked. By default nothing is printed.

=item safe => $bool

When set to a true value, will cause C<remove_tree> to skip the files
for which the process lacks the required privileges needed to delete
files, such as delete privileges on VMS. In other words, the code
will make no attempt to alter file permissions. Thus, if the process
is interrupted,
 no filesystem object will be left in a more
permissive mode.

=item keep_root => $bool

When set to a true value, will cause all files and subdirectories
to be removed, except the initially specified directories. This comes
in handy when cleaning out an application's scratch directory.

```
  remove_tree( '/tmp', {keep_root => 1} );
```

=item result => \$res

If present, it should be a reference to a scalar.
This scalar will be made to reference an array, which will
be used to store all files and directories unlinked
during the call. If nothing is unlinked, the array will be empty.

```
  remove_tree( '/tmp', {result => \my $list} );
  print "unlinked $_\n" for @$list;
```

This is a useful alternative to the C<verbose> key.

=item error => \$err

If present, it should be a reference to a scalar.
This scalar will be made to reference an array, which will
be used to store any errors that are encountered. See the L</"ERROR
HANDLING"> section for more information.

Removing things is
 a much more dangerous proposition than
creating things. As such, there are certain conditions that
C<remove_tree> may encounter that are so dangerous that the only
sane action left is to kill the program.

Use C<error> to trap all that is reasonable (problems with
permissions and the like), and let it die if things get out
of hand. This is the safest course of action.

=back

=item rmtree($dir)

=item rmtree($dir, $verbose, $safe)

=item rmtree([$dir1, $dir2,...], $verbose, $safe)

=item rmtree($dir1, $dir2,..., \%opt)

The C<rmtree()> function provide the legacy interface of
C<remove_tree()> with a different interpretation of the arguments
passed. The behaviour and return value of the function is otherwise
identical to C<remove_tree()>.

B<NOTE:> For security reasons, we strongly advise use of the
hashref-as-final-argument syntax, specifically with a setting of the C<safe>
element to a true value.

```
  rmtree( $dir1, $dir2, ....,
     {
        safe => 1,
        ...
      # other key-value pairs
     },
  );
```

=back

=head2 ERROR HANDLING

=over 4

=item B<NOTE:>

The following error handling mechanism is consistent throughout all
code paths EXCEPT in cases where the ROOT node is nonexistent. In

version 2.11 the maintainers attempted to rectify this inconsistency
but too many downstream modules encountered problems. In such case,
if you require root node evaluation or error checking prior to calling
C<make_path> or C<remove_tree>, you should take additional precautions.

=back

If C<make_path> or C<remove_tree> encounters an error, a diagnostic
message will be printed to C<STDERR> via C<carp> (for non-fatal
errors) or via C<croak> (for fatal errors).

If this behaviour is not desirable, the C<error> attribute may be
used to hold a reference to a variable, which will be used to store
the diagnostics. The variable is made a reference to an array of hash
references. Each hash contain a single key/value pair where the key
is the name of the
 file, and the value is the error message (including
the contents of C<$!> when appropriate). If a general error is
encountered the diagnostic key will be empty.

An example usage looks like:

```
 remove_tree( 'foo/bar', 'bar/rat', {error => \my $err} );
 if ($err && @$err) {
    for my $diag (@$err) {
       my ($file, $message) = %$diag;
       if ($file eq '') {
          print "general error: $message\n";
       }
       else {
          print "problem unlinking $file: $message\n";
       }
    }
 }
 else {
    print "No error encountered\n";
 }
```

Note that if no errors are encountered, C<$err> will reference an
empty array. This means that C<$err> will always end up TRUE; so you
need to test C<@$err> to determine if errors occurred.

=head2 NOTES

C<File::Path> blindly exports C<mkpath> and C<rmtree> into the
current namespace. These days, this is considered bad style, but
to change it now would break too much code. Nonetheless, you are
invited to

specify what it is you are expecting to use:

 use File::Path 'rmtree';

The routines C<make_path> and C<remove_tree> are B<not> exported
by default. You must specify which ones you want to use.

 use File::Path 'remove_tree';

Note that a side-effect of the above is that C<mkpath> and C<rmtree>
are no longer exported at all. This is due to the way the C<Exporter>
module works. If you are migrating a codebase to use the new
interface, you will have to list everything explicitly. But that's
just good practice anyway.

 use File::Path qw(remove_tree rmtree);

=head3 API CHANGES

The API was changed in the 2.0 branch. For a time, C<mkpath> and
C<rmtree> tried, unsuccessfully, to deal with the two different
calling mechanisms. This approach was considered a failure.

The new semantics are now only available with C<make_path> and
C<remove_tree>. The old semantics are only available through
C<mkpath> and C<rmtree>. Users are strongly encouraged to upgrade
to at least 2.08 in order to avoid
 surprises.

=head3 SECURITY CONSIDERATIONS

There were race conditions in the 1.x implementations of File::Path's
C<rmtree> function (although sometimes patched depending on the OS
distribution or platform). The 2.0 version contains code to avoid the
problem mentioned in CVE-2002-0435.

See the following pages for more information:

  http://bugs.debian.org/cgi-bin/bugreport.cgi?bug=286905
  http://www.nntp.perl.org/group/perl.perl5.porters/2005/01/msg97623.html
  http://www.debian.org/security/2005/dsa-696

Additionally, unless the C<safe> parameter is set (or the
third parameter in the traditional interface is TRUE), should a
C<remove_tree> be interrupted, files that were originally in read-only
mode may now have their permissions set to a read-write (or "delete
OK") mode.

The following CVE reports were previously filed against File-Path and are believed to have been addressed:

=over 4

=item * L<http://cve.circl.lu/cve/CVE-2004-0452>

=item * L<http://cve.circl.lu/cve/CVE-2005-0448>

=back

In February 2017 the cPanel Security Team reported an additional vulnerability in File-Path. The C<chmod()> logic to make directories traversable can be abused to set the mode on an attacker-chosen file to an attacker-chosen value. This is due to the time-of-check-to-time-of-use (TOCTTOU) race condition (L<https://en.wikipedia.org/wiki/Time_of_check_to_time_of_use>) between the C<stat()> that decides the inode is a directory and the C<chmod()> that tries to make it user-rwx. CPAN versions 2.13 and later incorporate a patch provided by John Lightsey to address this problem. This vulnerability has been reported as CVE-2017-6512.

=head1 DIAGNOSTICS

FATAL errors will cause the program to halt (C<croak>), since the problem is so severe that it would be dangerous to continue. (This can always be trapped with C<eval>, but it's not a good idea. Under the circumstances, dying is the best thing to do).

SEVERE errors may be trapped using the modern interface. If the they are not trapped, or if the old interface is used, such an error will cause the program will halt.

All other errors may be trapped using the modern interface, otherwise they will be C<carp>ed about. Program execution will not be halted.

=over 4

=item mkdir [path]: [errmsg] (SEVERE)

C<make_path> was unable to create the path. Probably some sort of permissions error at the point of departure or insufficient resources (such as free inodes on Unix).

=item No root path(s) specified

C<make_path> was not given any paths to create. This message is only

emitted if the routine is called with the traditional interface.
The modern interface will remain silent if given nothing to do.

=item No such file or directory

On Windows, if C<make_path> gives you this warning, it may mean that
you have exceeded your filesystem's maximum path length.

=item cannot fetch initial working directory: [errmsg]

C<remove_tree> attempted to determine the initial directory by calling
C<Cwd::getcwd>, but the call
 failed for some reason. No attempt
will be made to delete anything.

=item cannot stat initial working directory: [errmsg]

C<remove_tree> attempted to stat the initial directory (after having
successfully obtained its name via C<getcwd>), however, the call
failed for some reason. No attempt will be made to delete anything.

=item cannot chdir to [dir]: [errmsg]

C<remove_tree> attempted to set the working directory in order to
begin deleting the objects therein, but was unsuccessful. This is
usually a permissions issue. The routine will continue to delete
other things, but this directory will be left intact.

=item directory [dir] changed before chdir, expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

C<remove_tree> recorded the device and inode of a directory, and then
moved into it. It then performed a C<stat> on the current directory
and detected that the device and inode were no longer the same. As
this is at the heart of the race condition problem, the program
will
 die at this point.

=item cannot make directory [dir] read+writeable: [errmsg]

C<remove_tree> attempted to change the permissions on the current directory
to ensure that subsequent unlinkings would not run into problems,
but was unable to do so. The permissions remain as they were, and
the program will carry on, doing the best it can.

=item cannot read [dir]: [errmsg]

C<remove_tree> tried to read the contents of the directory in order
to acquire the names of the directory entries to be unlinked, but

was unsuccessful. This is usually a permissions issue. The
program will continue, but the files in this directory will remain
after the call.

=item cannot reset chmod [dir]: [errmsg]

C<remove_tree>, after having deleted everything in a directory, attempted
to restore its permissions to the original state but failed. The
directory may wind up being left behind.

=item cannot remove [dir] when cwd is [dir]

The current working directory of the program is F</some/path/to/here>
and
 you are attempting to remove an ancestor, such as F</some/path>.
The directory tree is left untouched.

The solution is to C<chdir> out of the child directory to a place
outside the directory tree to be removed.

=item cannot chdir to [parent-dir] from [child-dir]: [errmsg], aborting. (FATAL)

C<remove_tree>, after having deleted everything and restored the permissions
of a directory, was unable to chdir back to the parent. The program
halts to avoid a race condition from occurring.

=item cannot stat prior working directory [dir]: [errmsg], aborting. (FATAL)

C<remove_tree> was unable to stat the parent directory after having returned
from the child. Since there is no way of knowing if we returned to
where we think we should be (by comparing device and inode) the only
way out is to C<croak>.

=item previous directory [parent-dir] changed before entering [child-dir], expected dev=[n] ino=[n], actual dev=[n] ino=[n], aborting. (FATAL)

When C<remove_tree> returned from deleting files in
 a child directory, a
check revealed that the parent directory it returned to wasn't the one
it started out from. This is considered a sign of malicious activity.

=item cannot make directory [dir] writeable: [errmsg]

Just before removing a directory (after having successfully removed
everything it contained), C<remove_tree> attempted to set the permissions
on the directory to ensure it could be removed and failed. Program
execution continues, but the directory may possibly not be deleted.

=item cannot remove directory [dir]: [errmsg]

C<remove_tree> attempted to remove a directory, but failed. This may be because
some objects that were unable to be removed remain in the directory, or
it could be a permissions issue. The directory will be left behind.

=item cannot restore permissions of [dir] to [0nnn]: [errmsg]

After having failed to remove a directory, C<remove_tree> was unable to
restore its permissions from a permissive state back to a possibly
more restrictive setting. (Permissions
 given in octal).

=item cannot make file [file] writeable: [errmsg]

C<remove_tree> attempted to force the permissions of a file to ensure it
could be deleted, but failed to do so. It will, however, still attempt
to unlink the file.

=item cannot unlink file [file]: [errmsg]

C<remove_tree> failed to remove a file. Probably a permissions issue.

=item cannot restore permissions of [file] to [0nnn]: [errmsg]

After having failed to remove a file, C<remove_tree> was also unable
to restore the permissions on the file to a possibly less permissive
setting. (Permissions given in octal).

=item unable to map [owner] to a uid, ownership not changed");

C<make_path> was instructed to give the ownership of created
directories to the symbolic name [owner], but C<getpwnam> did
not return the corresponding numeric uid. The directory will
be created, but ownership will not be changed.

=item unable to map [group] to a gid, group ownership not changed

C<make_path> was instructed to give the group
 ownership of created
directories to the symbolic name [group], but C<getgrnam> did
not return the corresponding numeric gid. The directory will
be created, but group ownership will not be changed.

=back

=head1 SEE ALSO

=over 4

=item *

L<File::Remove>

Allows files and directories to be moved to the Trashcan/Recycle
Bin (where they may later be restored if necessary) if the operating
system supports such functionality. This feature may one day be
made available directly in C<File::Path>.

=item *

L<File::Find::Rule>

When removing directory trees, if you want to examine each file to
decide whether to delete it (and possibly leaving large swathes
alone), F<File::Find::Rule> offers a convenient and flexible approach
to examining directory trees.

=back

=head1 BUGS AND LIMITATIONS

The following describes F<File::Path> limitations and how to report bugs.

=head2 MULTITHREADED APPLICATIONS

F<File::Path> C<rmtree> and C<remove_tree> will not work with
multithreaded applications
 due to its use of C<chdir>. At this time,
no warning or error is generated in this situation. You will
certainly encounter unexpected results.

The implementation that surfaces this limitation will not be changed. See the
F<File::Path::Tiny> module for functionality similar to F<File::Path> but which does
not C<chdir>.

=head2 NFS Mount Points

F<File::Path> is not responsible for triggering the automounts, mirror mounts,
and the contents of network mounted filesystems. If your NFS implementation
requires an action to be performed on the filesystem in order for
F<File::Path> to perform operations, it is strongly suggested you assure
filesystem availability by reading the root of the mounted filesystem.

=head2 REPORTING BUGS

Please report all bugs on the RT queue, either via the web interface:

L<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

or by email:

  bug-File-Path@rt.cpan.org

In either case, please B<attach> patches to the bug report rather than
including them inline
 in the web post or the body of the email.

You can also send pull requests to the Github repository:

L<https://github.com/rpcme/File-Path>

=head1 ACKNOWLEDGEMENTS

Paul Szabo identified the race condition originally, and Brendan
O'Dea wrote an implementation for Debian that addressed the problem.
That code was used as a basis for the current code. Their efforts
are greatly appreciated.

Gisle Aas made a number of improvements to the documentation for
2.07 and his advice and assistance is also greatly appreciated.

=head1 AUTHORS

Prior authors and maintainers: Tim Bunce, Charles Bailey, and
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=head1 CONTRIBUTORS

Contributors to File::Path, in alphabetical order by first name.

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=back

=head1 COPYRIGHT

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=cut

Found in path(s):
* /perl-File-Path-2.15-2.el8.src.rpm-cosi-expand-archive-AW8PKhem/File-Path-2.15.tar.gz-cosi-expand-archive-jmkwhKy1/File-Path-2.15/lib/File/Path.pm
No license file was found, but licenses were detected in source scan.

NAME
File::Path - Create or remove directory trees

INSTALLATION
  perl Makefile.PL
  make
  make test
  make install

PREREQUISITES
All prerequisites are found in the Perl 5 core distribution.

To configure:
  ExtUtils::MakeMaker

To build:

Cwd	File::Basename
Exporter	File::Spec

To test:

Carp	File::Spec::Functions
Config	SelectSaver
Cwd	Test::More
Errno	Win32 # Windows only
Fcntl	

BUGS
The File-Path bug tracker is located at:

<http://rt.cpan.org/NoAuth/Bugs.html?Dist=File-Path>

File reports by sending email to:

bug-File-Path@rt.cpan.org

Include test programs or patches as email attachments.

AUTHORS
Prior authors and maintainers: Tim Bunce, Charles Bailey, and David
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Found in path(s):
* /perl-File-Path-2.15-2.el8.src.rpm-cosi-expand-archive-AW8PKhem/File-Path-2.15.tar.gz-cosi-expand-archive-jmkwhKy1/File-Path-2.15/README

1.59 perl-text-parsewords 3.30-395.el8

1.59.1 Available under license :

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

License: GPL+ or Artistic

Found in path(s):
* /perl-Text-ParseWords-3.30-395.el8.src.rpm-cosi-expand-archive-hLfeekCO/perl-Text-ParseWords.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Text::ParseWords - parse text into an array of tokens or array of arrays

=head1 SYNOPSIS

```
 use Text::ParseWords;
 @lists = nested_quotewords($delim, $keep, @lines);
 @words = quotewords($delim, $keep, @lines);
 @words = shellwords(@lines);
 @words = parse_line($delim, $keep, $line);
 @words = old_shellwords(@lines); # DEPRECATED!
```

=head1 DESCRIPTION

The &nested_quotewords() and &quotewords() functions accept a delimiter
(which can be a regular expression)
and a list of lines and then breaks those lines up into a list of
words ignoring delimiters that appear inside quotes. &quotewords()
returns all of the tokens in a single long list, while &nested_quotewords()
returns a list of token lists corresponding to the elements of @lines.
&parse_line() does tokenizing on a single string. The &*quotewords()
functions simply call &parse_line(), so if you're only splitting
one line you can call &parse_line()
 directly and save a function
call.

The $keep argument is a boolean flag. If true, then the tokens are
split on the specified delimiter, but all other characters (including
quotes and backslashes) are kept in the tokens. If $keep is false then the
&*quotewords() functions remove all quotes and backslashes that are
not themselves backslash-escaped or inside of single quotes (i.e.,
&quotewords() tries to interpret these characters just like the Bourne
shell). NB: these semantics are significantly different from the
original version of this module shipped with Perl 5.000 through 5.004.
As an additional feature, $keep may be the keyword "delimiters" which
causes the functions to preserve the delimiters in each string as
tokens in the token lists, in addition to preserving quote and
backslash characters.

&shellwords() is written as a special case of &quotewords(), and it
does token parsing with whitespace as a delimiter-- similar to most
Unix shells.

=head1 EXAMPLES

The sample program:

```
  use Text::ParseWords;
 @words = quotewords('\s+', 0, q{this   is "a test" of\ quotewords \"for you});
 $i = 0;
 foreach (@words) {
    print "$i: <$_>\n";
    $i++;
 }
```

produces:

```
 0: <this>
 1: <is>
 2: <a test>
 3: <of quotewords>
 4: <"for>
 5: <you>
```

demonstrating:

=over 4

=item 0Z<>

a simple word

=item 1Z<>

multiple spaces are skipped because of our $delim

=item 2Z<>

use of quotes to include a space in a word

=item 3Z<>

use of a backslash to include a space in a word

=item 4Z<>

use of a backslash to remove the special meaning of a double-quote

=item 5Z<>

another simple word (note the lack of effect of the
backslashed double-quote)

=back

Replacing C<quotewords('\s+', 0, q{this   is...})>
with C<shellwords(q{this   is...})>
is a simpler way to accomplish the same thing.

=head1 SEE ALSO

L<Text::CSV> - for parsing CSV files

=head1 AUTHORS

Maintainer: Alexandr Ciornii <alexchornyATgmail.com>.

Previous maintainer: Hal Pomeranz <pomeranz@netcom.com>,
 1994-1997 (Original
author unknown). Much of the code for &parse_line() (including the
primary regexp) from Joerk Behrends <jbehrends@multimediaproduzenten.de>.

Examples section another documentation provided by John Heidemann
<johnh@ISI.EDU>

Bug reports, patches, and nagging provided by lots of folks-- thanks
everybody! Special thanks to Michael Schwern <schwern@envirolink.org>
for assuring me that a &nested_quotewords() would be useful, and to
Jeff Friedl <jfriedl@yahoo-inc.com> for telling me not to worry about
error-checking (sort of-- you had to be there).

=head1 COPYRIGHT AND LICENSE

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=cut

Found in path(s):
* /perl-Text-ParseWords-3.30-395.el8.src.rpm-cosi-expand-archive-hLfeekCO/Text-ParseWords-3.30.tar.gz-cosi-expand-archive-d5OpwjES/Text-ParseWords-3.30/lib/Text/ParseWords.pm
No license file was found, but licenses were detected in source scan.

---

abstract: parse text into an array of tokens or array of arrays
author:
 - 'Alexandr Ciornii <alexchorny@gmail.com>'
build_requires:
 ExtUtils::MakeMaker: 0
 Scalar::Util: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.78, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Text-ParseWords
no_index:
 directory:
   - t
   - inc
requires:
 perl: 5.006
resources:
 repository: http://github.com/chorny/Text-ParseWords
version: 3.30

Found in path(s):
* /perl-Text-ParseWords-3.30-395.el8.src.rpm-cosi-expand-archive-hLfeekCO/Text-ParseWords-3.30.tar.gz-cosi-expand-archive-d5OpwjES/Text-ParseWords-3.30/META.yml

1.60 perl-exporter 5.72-396.el8

1.60.1 Available under license :

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

---
abstract: 'Implements default import method for modules'
author:
 - unknown
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.68, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html

version: 1.4
name: Exporter
no_index:
directory:
- t
- inc
recommends:
Test::Pod: 1.18
Test::Pod::Coverage: 1.04
requires:
Carp: 1.05
resources:
bugtracker: http://rt.perl.org/perlbug/
license: http://dev.perl.org/licenses/
repository: http://perl5.git.perl.org/perl.git/tree/HEAD:/lib
x_MailingList: http://lists.perl.org/list/perl5-porters.html
version: 5.70

Found in path(s):
* /perl-Exporter-5.72-396.el8.src.rpm-cosi-expand-archive-GuLegXXN/Exporter-5.70.tar.gz-cosi-expand-archive-6GLS2Cl0/Exporter-5.70/META.yml
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Found in path(s):
* /perl-Exporter-5.72-396.el8.src.rpm-cosi-expand-archive-GuLegXXN/Exporter-5.70.tar.gz-cosi-expand-archive-6GLS2Cl0/Exporter-5.70/README
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /perl-Exporter-5.72-396.el8.src.rpm-cosi-expand-archive-GuLegXXN/perl-Exporter.spec
No license file was found, but licenses were detected in source scan.

=head1 NAME

Exporter - Implements default import method for modules

=head1 SYNOPSIS

In module F<YourModule.pm>:

```
package YourModule;
require Exporter;
@ISA = qw(Exporter);
```

```
 @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
```

or

```
 package YourModule;
 use Exporter 'import'; # gives you Exporter's import() method directly
 @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
```

In other files which wish to use C<YourModule>:

```
 use YourModule qw(frobnicate);      # import listed symbols
 frobnicate ($left, $right)          # calls YourModule::frobnicate
```

Take a look at L</Good Practices> for some variants
you will like to use in modern Perl code.

=head1 DESCRIPTION

The Exporter module implements an C<import> method which allows a module
to export functions and variables to its users' namespaces. Many modules
use Exporter rather than implementing their own C<import> method because
Exporter
 provides a highly flexible interface, with an implementation optimised
for the common case.

Perl automatically calls the C<import> method when processing a
C<use> statement for a module. Modules and C<use> are documented
in L<perlfunc> and L<perlmod>. Understanding the concept of
modules and how the C<use> statement operates is important to
understanding the Exporter.

=head2 How to Export

The arrays C<@EXPORT> and C<@EXPORT_OK> in a module hold lists of
symbols that are going to be exported into the users name space by
default, or which they can request to be exported, respectively. The
symbols can represent functions, scalars, arrays, hashes, or typeglobs.
The symbols must be given by full name with the exception that the
ampersand in front of a function is optional, e.g.

```
  @EXPORT    = qw(afunc $scalar @array);   # afunc is a function
  @EXPORT_OK = qw(&bfunc %hash *typeglob); # explicit prefix on &bfunc
```

If you are only exporting function names it is recommended
 to omit the
ampersand, as the implementation is faster this way.

=head2 Selecting What to Export

Do B<not> export method names!

Do B<not> export anything else by default without a good reason!

Exports pollute the namespace of the module user. If you must export
try to use C<@EXPORT_OK> in preference to C<@EXPORT> and avoid short or
common symbol names to reduce the risk of name clashes.

Generally anything not exported is still accessible from outside the
module using the C<YourModule::item_name> (or C<< $blessed_ref->method >>)
syntax. By convention you can use a leading underscore on names to
informally indicate that they are 'internal' and not for public use.

(It is actually possible to get private functions by saying:

```
 my $subref = sub { ... };
 $subref->(@args);           # Call it as a function
 $obj->$subref(@args);       # Use it as a method
```

However if you use them for methods it is up to you to figure out
how to make inheritance work.)

As a general rule, if
 the module is trying to be object oriented
then export nothing. If it's just a collection of functions then
C<@EXPORT_OK> anything but use C<@EXPORT> with caution. For function and
method names use barewords in preference to names prefixed with
ampersands for the export lists.

Other module design guidelines can be found in L<perlmod>.

=head2 How to Import

In other files which wish to use your module there are three basic ways for
them to load your module and import its symbols:

=over 4

=item C<use YourModule;>

This imports all the symbols from YourModule's C<@EXPORT> into the namespace
of the C<use> statement.

=item C<use YourModule ();>

This causes perl to load your module but does not import any symbols.

=item C<use YourModule qw(...);>

This imports only the symbols listed by the caller into their namespace.
All listed symbols must be in your C<@EXPORT> or C<@EXPORT_OK>, else an error
occurs. The advanced export features of Exporter are accessed like this,
but with list
 entries that are syntactically distinct from symbol names.

=back

Unless you want to use its advanced features, this is probably all you
need to know to use Exporter.

=head1 Advanced Features

=head2 Specialised Import Lists

If any of the entries in an import list begins with !, : or / then
the list is treated as a series of specifications which either add to
or delete from the list of names to import. They are processed left to
right. Specifications are in the form:

  [!]name   This name only
  [!]:DEFAULT   All names in @EXPORT
  [!]:tag   All names in $EXPORT_TAGS{tag} anonymous list
  [!]/pattern/   All names in @EXPORT and @EXPORT_OK which match

A leading ! indicates that matching names should be deleted from the
list of names to import. If the first specification is a deletion it
is treated as though preceded by :DEFAULT. If you just want to import
extra names in addition to the default set you will still need to
include :DEFAULT explicitly.

e.g.,
 F<Module.pm> defines:

  @EXPORT   = qw(A1 A2 A3 A4 A5);
  @EXPORT_OK   = qw(B1 B2 B3 B4 B5);
  %EXPORT_TAGS = (T1 => [qw(A1 A2 B1 B2)], T2 => [qw(A1 A2 B3 B4)]);

Note that you cannot use tags in @EXPORT or @EXPORT_OK.

Names in EXPORT_TAGS must also appear in @EXPORT or @EXPORT_OK.

An application using Module can say something like:

  use Module qw(:DEFAULT :T2 !B3 A3);

Other examples include:

```
  use Socket qw(!/^[AP]F_/ !SOMAXCONN !SOL_SOCKET);
  use POSIX  qw(:errno_h :termios_h !TCSADRAIN !/^EXIT/);
```

Remember that most patterns (using //) will need to be anchored
with a leading ^, e.g., C</^EXIT/> rather than C</EXIT/>.

You can say C<BEGIN { $Exporter::Verbose=1 }> to see how the
specifications are being processed and what is actually being imported
into modules.

=head2 Exporting Without Using Exporter's import Method

Exporter has a special method, 'export_to_level' which is used in situations
where you can't directly call Exporter's
import method. The export_to_level
method
 looks like:

```
  MyPackage->export_to_level(
$where_to_export, $package, @what_to_export
  );
```

where C<$where_to_export> is an integer telling how far up the calling stack
to export your symbols, and C<@what_to_export> is an array telling what
symbols *to* export (usually this is C<@_>). The C<$package> argument is
currently unused.

For example, suppose that you have a module, A, which already has an
import function:

```
  package A;

  @ISA = qw(Exporter);
  @EXPORT_OK = qw($b);

  sub import
  {
$A::b = 1;     # not a very useful import method
  }
```

and you want to Export symbol C<$A::b> back to the module that called
package A. Since Exporter relies on the import method to work, via
inheritance, as it stands Exporter::import() will never get called.
Instead, say the following:

```
  package A;
```

```
  @ISA = qw(Exporter);
  @EXPORT_OK = qw($b);

  sub import
  {
 $A::b = 1;
 A->export_to_level(1, @_);
  }
```

This will export the symbols one level
 'above' the current package - ie: to
the program or module that used package A.

Note: Be careful not to modify C<@_> at all before you call export_to_level
- or people using your package will get very unexplained results!

=head2 Exporting Without Inheriting from Exporter

By including Exporter in your C<@ISA> you inherit an Exporter's import() method
but you also inherit several other helper methods which you probably don't
want. To avoid this you can do:

```
 package YourModule;
 use Exporter qw(import);
```

which will export Exporter's own import() method into YourModule.
Everything will work as before but you won't need to include Exporter in
C<@YourModule::ISA>.

Note: This feature was introduced in version 5.57
of Exporter, released with perl 5.8.3.

=head2 Module Version Checking

The Exporter module will convert an attempt to import a number from a
module into a call to C<< $module_name->VERSION($value) >>. This can
be used to validate that the version of the module being used
 is
greater than or equal to the required version.

For historical reasons, Exporter supplies a C<require_version> method that
simply delegates to C<VERSION>. Originally, before C<UNIVERSAL::VERSION>
existed, Exporter would call C<require_version>.

Since the C<UNIVERSAL::VERSION> method treats the C<$VERSION> number as
a simple numeric value it will regard version 1.10 as lower than
1.9. For this reason it is strongly recommended that you use numbers
with at least two decimal places, e.g., 1.09.

=head2 Managing Unknown Symbols

In some situations you may want to prevent certain symbols from being
exported. Typically this applies to extensions which have functions
or constants that may not exist on some systems.

The names of any symbols that cannot be exported should be listed
in the C<@EXPORT_FAIL> array.

If a module attempts to import any of these symbols the Exporter
will give the module an opportunity to handle the situation before
generating an error. The Exporter will call
 an export_fail method
with a list of the failed symbols:

 @failed_symbols = $module_name->export_fail(@failed_symbols);

If the C<export_fail> method returns an empty list then no error is
recorded and all the requested symbols are exported. If the returned
list is not empty then an error is generated for each symbol and the
export fails. The Exporter provides a default C<export_fail> method which
simply returns the list unchanged.

Uses for the C<export_fail> method include giving better error messages
for some symbols and performing lazy architectural checks (put more
symbols into C<@EXPORT_FAIL> by default and then take them out if someone
actually tries to use them and an expensive check shows that they are
usable on that platform).

=head2 Tag Handling Utility Functions

Since the symbols listed within C<%EXPORT_TAGS> must also appear in either
C<@EXPORT> or C<@EXPORT_OK>, two utility functions are provided which allow
you to easily add tagged sets of symbols to C<@EXPORT>
 or C<@EXPORT_OK>:

 %EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

 Exporter::export_tags('foo');   # add aa, bb and cc to @EXPORT
 Exporter::export_ok_tags('bar'); # add aa, cc and dd to @EXPORT_OK

Any names which are not tags are added to C<@EXPORT> or C<@EXPORT_OK>
unchanged but will trigger a warning (with C<-w>) to avoid misspelt tags
names being silently added to C<@EXPORT> or C<@EXPORT_OK>. Future versions
may make this a fatal error.

=head2 Generating Combined Tags

If several symbol categories exist in C<%EXPORT_TAGS>, it's usually
useful to create the utility ":all" to simplify "use" statements.

The simplest way to do this is:

```
 %EXPORT_TAGS = (foo => [qw(aa bb cc)], bar => [qw(aa cc dd)]);

 # add all the other ":class" tags to the ":all" class,
 # deleting duplicates
 {
   my %seen;

   push @{$EXPORT_TAGS{all}},
     grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}} foreach keys %EXPORT_TAGS;
 }
```

F<CGI.pm> creates an ":all" tag which contains some
(but not really
all) of its categories. That could be done with one small
change:

```
 # add some of the other ":class" tags to the ":all" class,
 # deleting duplicates
 {
   my %seen;

   push @{$EXPORT_TAGS{all}},
     grep {!$seen{$_}++} @{$EXPORT_TAGS{$_}}
       foreach qw/html2 html3 netscape form cgi internal/;
 }
```

Note that the tag names in C<%EXPORT_TAGS> don't have the leading ':'.

=head2 C<AUTOLOAD>ed Constants

Many modules make use of C<AUTOLOAD>ing for constant subroutines to
avoid having to compile and waste memory on rarely used values (see
L<perlsub> for details on constant subroutines). Calls to such
constant subroutines are not optimized away at compile time because
they can't be checked at compile time for constancy.

Even if a prototype is available at compile time, the body of the
subroutine is not (it hasn't been C<AUTOLOAD>ed yet). perl needs to
examine both the C<()> prototype and the body of a subroutine at
compile time to detect that it can safely replace
 calls to that
subroutine with the constant value.

A workaround for this is to call the constants once in a C<BEGIN> block:

```
 package My ;

 use Socket ;

 foo( SO_LINGER );  ## SO_LINGER NOT optimized away; called at runtime
 BEGIN { SO_LINGER }
 foo( SO_LINGER );  ## SO_LINGER optimized away at compile time.
```

This forces the C<AUTOLOAD> for C<SO_LINGER> to take place before
SO_LINGER is encountered later in C<My> package.

If you are writing a package that C<AUTOLOAD>s, consider forcing
an C<AUTOLOAD> for any constants explicitly imported by other packages
or which are usually used when your package is C<use>d.

=head1 Good Practices

=head2 Declaring C<@EXPORT_OK> and Friends

When using C<Exporter> with the standard C<strict> and C<warnings>
pragmas, the C<our> keyword is needed to declare the package
variables C<@EXPORT_OK>, C<@EXPORT>, C<@ISA>, etc.

```
 our @ISA = qw(Exporter);
 our @EXPORT_OK = qw(munge frobnicate);
```

If backward compatibility for Perls under 5.6
 is important,
one must write instead a C<use vars> statement.

```
 use vars qw(@ISA @EXPORT_OK);
 @ISA = qw(Exporter);
 @EXPORT_OK = qw(munge frobnicate);
```

=head2 Playing Safe

There are some caveats with the use of runtime statements
like C<require Exporter> and the assignment to package
variables, which can be very subtle for the unaware programmer.
This may happen for instance with mutually recursive
modules, which are affected by the time the relevant
constructions are executed.

The ideal (but a bit ugly) way to never have to think
about that is to use C<BEGIN> blocks. So the first part

of the L</SYNOPSIS> code could be rewritten as:

```
 package YourModule;

 use strict;
 use warnings;

 our (@ISA, @EXPORT_OK);
 BEGIN {
    require Exporter;
    @ISA = qw(Exporter);
    @EXPORT_OK = qw(munge frobnicate);  # symbols to export on request
 }
```

The C<BEGIN> will assure that the loading of F<Exporter.pm>
and the assignments to C<@ISA> and C<@EXPORT_OK> happen
immediately, leaving
 no room for something to get awry
or just plain wrong.

With respect to loading C<Exporter> and inheriting, there
are alternatives with the use of modules like C<base> and C<parent>.

```
 use base qw(Exporter);
 # or
 use parent qw(Exporter);
```

Any of these statements are nice replacements for
C<BEGIN { require Exporter; @ISA = qw(Exporter); }>
with the same compile-time effect. The basic difference
is that C<base> code interacts with declared C<fields>
while C<parent> is a streamlined version of the older
C<base> code to just establish the IS-A relationship.

For more details, see the documentation and code of
L<base> and L<parent>.

Another thorough remedy to that runtime
vs. compile-time trap is to use L<Exporter::Easy>,
which is a wrapper of Exporter that allows all
boilerplate code at a single gulp in the
use statement.

```
  use Exporter::Easy (
      OK => [ qw(munge frobnicate) ],
  );
  # @ISA setup is automatic
  # all assignments happen at compile time
```

=head2 What Not to
Export

You have been warned already in L</Selecting What to Export>
to not export:

=over 4

=item *

method names (because you don't need to
and that's likely to not do what you want),

=item *

anything by default (because you don't want to surprise your users...
badly)

=item *

anything you don't need to (because less is more)

=back

There's one more item to add to this list. Do B<not>
export variable names. Just because C<Exporter> lets you
do that, it does not mean you should.

@EXPORT_OK = qw($svar @avar %hvar); # DON'T!

Exporting variables is not a good idea. They can
change under the hood, provoking horrible
effects at-a-distance that are too hard to track
and to fix. Trust me: they are not worth it.

To provide the capability to set/get class-wide
settings, it is best instead to provide accessors
as subroutines or class methods instead.

=head1 SEE ALSO

C<Exporter> is definitely not the only module with
symbol exporter capabilities. At CPAN, you may find
a bunch
of them. Some are lighter. Some
provide improved APIs and features. Pick the one
that fits your needs. The following is

a sample list of such modules.

  Exporter::Easy
  Exporter::Lite
  Exporter::Renaming
  Exporter::Tidy
  Sub::Exporter / Sub::Installer
  Perl6::Export / Perl6::Export::Attrs

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=cut

Found in path(s):
* /perl-Exporter-5.72-396.el8.src.rpm-cosi-expand-archive-GuLegXXN/Exporter-5.70.tar.gz-cosi-expand-archive-6GLS2Cl0/Exporter-5.70/lib/Exporter.pm

1.61 perl-pathtools 3.74-1.el8

1.61.1 Available under license :

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=back

=head1 AUTHORS

See the authors list in I<File::Spec>. Mac OS support by Paul Schinder
<schinder@pobox.com> and Thomas Wegner <wegner_thomas@yahoo.com>.

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
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=cut

Found in path(s):

* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Mac.pm
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=head1 NAME

Cwd - get pathname of current working directory

=head1 SYNOPSIS

  use Cwd;
  my $dir = getcwd;

  use Cwd 'abs_path';
  my $abs_path = abs_path($file);

=head1 DESCRIPTION

This module provides functions for determining the pathname of the
current working directory. It is recommended that getcwd (or another
*cwd() function) be used in I<all> code to ensure portability.

By default, it exports the functions cwd(), getcwd(), fastcwd(), and
fastgetcwd() (and, on Win32, getdcwd()) into the caller's namespace.

=head2 getcwd and friends

Each of these functions are called without arguments and return the
absolute path of the current working directory.

=over 4

=item getcwd

  my $cwd = getcwd();

Returns the current working directory. On error returns C<undef>,
with C<$!> set to indicate the error.

Exposes the POSIX function getcwd(3) or re-implements it if it's not
available.

=item cwd

   my $cwd = cwd();

The cwd() is the most natural form for the current architecture. For

most systems it is identical to `pwd` (but without the trailing line
terminator).

=item fastcwd

```
  my $cwd = fastcwd();
```

A more dangerous version of getcwd(), but potentially faster.

It might conceivably chdir() you out of a directory that it can't
chdir() you back into. If fastcwd encounters a problem it will return
undef but will probably leave you in a different directory. For a
measure of extra security, if everything appears to have worked, the
fastcwd() function will check that it leaves you in the same directory
that it started in. If it has changed it will C<die> with the message
"Unstable directory path, current directory changed
unexpectedly". That should never happen.

=item fastgetcwd

```
 my $cwd = fastgetcwd();
```

The fastgetcwd() function is provided as a synonym for cwd().

=item getdcwd

```
  my $cwd = getdcwd();
  my $cwd = getdcwd('C:');
```

The getdcwd() function is also provided
 on Win32 to get the current working
directory on the specified drive, since Windows maintains a separate current
working directory for each drive. If no drive is specified then the current
drive is assumed.

This function simply calls the Microsoft C library _getdcwd() function.

=back

=head2 abs_path and friends

These functions are exported only on request. They each take a single
argument and return the absolute pathname for it. If no argument is
given they'll use the current working directory.

=over 4

=item abs_path

 my $abs_path = abs_path($file);

Uses the same algorithm as getcwd(). Symbolic links and relative-path
components ("." and "..") are resolved to return the canonical
pathname, just like realpath(3). On error returns C<undef>, with C<$!>
set to indicate the error.

=item realpath

 my $abs_path = realpath($file);

A synonym for abs_path().

=item fast_abs_path

 my $abs_path = fast_abs_path($file);

A more dangerous, but potentially faster version of
 abs_path.

=back

=head2 $ENV{PWD}

If you ask to override your chdir() built-in function,

 use Cwd qw(chdir);

then your PWD environment variable will be kept up to date. Note that
it will only be kept up to date if all packages which use chdir import
it from Cwd.

=head1 NOTES

=over 4

=item *

Since the path separators are different on some operating systems ('/'
on Unix, ':' on MacPerl, etc...) we recommend you use the File::Spec
modules wherever portability is a concern.

=item *

Actually, on Mac OS, the C<getcwd()>, C<fastgetcwd()> and C<fastcwd()>

functions are all aliases for the C<cwd()> function, which, on Mac OS,
calls `pwd`. Likewise, the C<abs_path()> function is an alias for
C<fast_abs_path()>.

=back

=head1 AUTHOR

Originally by the perl5-porters.

Maintained by Ken Williams <KWILLIAMS@cpan.org>

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the distribution - please see the source code in F<Cwd.xs> for the
details.

=head1 SEE ALSO

L<File::chdir>

=cut

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'Tools for working with directory and file names'
author:
 - 'Perl 5 Porters'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl

meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: PathTools
no_index:
 directory:
   - t
   - inc
requires:
 Carp: '0'
 File::Basename: '0'
 Scalar::Util: '0'
 Test::More: '0.88'
resources:
 bugtracker: https://rt.perl.org/rt3/
 homepage: http://dev.perl.org/
 repository: git://perl5.git.perl.org/perl.git
version: '3.74'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/META.yml
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=cut

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Cygwin.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec - portably perform operations on file names

=head1 SYNOPSIS

 use File::Spec;

```
 $x=File::Spec->catfile('a', 'b', 'c');
```

which returns 'a/b/c' under Unix. Or:

```
 use File::Spec::Functions;

 $x = catfile('a', 'b', 'c');
```

=head1 DESCRIPTION

This module is designed to support operations commonly performed on file specifications (usually called "file names", but not to be confused with the contents of a file, or Perl's file handles), such as concatenating several directory and file names into a single path, or determining whether a path is rooted. It is based on code directly taken from MakeMaker 5.17, code written by Andreas KE<ouml>nig, Andy Dougherty, Charles Bailey, Ilya Zakharevich, Paul Schinder, and others.

Since these functions are different for most operating systems, each set of OS specific routines is available in a separate module, including:

```
 File::Spec::Unix
 File::Spec::Mac
 File::Spec::OS2
 File::Spec::Win32
 File::Spec::VMS
```

The
 module appropriate for the current OS is automatically loaded by File::Spec. Since some modules (like VMS) make use of facilities available only under that OS, it may not be possible to load all modules under all operating systems.

Since File::Spec is object oriented, subroutines should not be called directly, as in:

```
 File::Spec::catfile('a','b');
```

but rather as class methods:

```
 File::Spec->catfile('a','b');
```

For simple uses, L<File::Spec::Functions> provides convenient functional forms of these methods.

=head1 METHODS

=over 2

=item canonpath
X<canonpath>

No physical check on the filesystem, but a logical cleanup of a
path.

  $cpath = File::Spec->canonpath($path) ;

Note that this does *not* collapse F<x/../y> sections into F<y>. This
is by design. If F</foo> on your system is a symlink to F</bar/baz>,
then F</foo/../quux> is actually F</bar/quux>, not F</quux> as a naive
F<../>-removal would give you. If you want to do
 this kind of
processing, you probably want C<Cwd>'s C<realpath()> function to
actually traverse the filesystem cleaning up paths like this.

=item catdir
X<catdir>

Concatenate two or more directory names to form a complete path ending
with a directory. But remove the trailing slash from the resulting
string, because it doesn't look good, isn't necessary and confuses
OS/2. Of course, if this is the root directory, don't cut off the
trailing slash :-)

  $path = File::Spec->catdir(@directories);

=item catfile
X<catfile>

Concatenate one or more directory names and a filename to form a
complete path ending with a filename

  $path = File::Spec->catfile(@directories, $filename);

=item curdir
X<curdir>

Returns a string representation of the current directory.

  $curdir = File::Spec->curdir();

=item devnull
X<devnull>

Returns a string representation of the null device.

```
  $devnull = File::Spec->devnull();

=item rootdir
X<rootdir>

Returns a string representation of the root
 directory.

  $rootdir = File::Spec->rootdir();

=item tmpdir
X<tmpdir>

Returns a string representation of the first writable directory from a
list of possible temporary directories.  Returns the current directory
if no writable temporary directories are found.  The list of directories
checked depends on the platform; e.g. File::Spec::Unix checks C<$ENV{TMPDIR}>
(unless taint is on) and F</tmp>.

  $tmpdir = File::Spec->tmpdir();

=item updir
X<updir>

Returns a string representation of the parent directory.

  $updir = File::Spec->updir();

=item no_upwards

Given a list of files in a directory (such as from C<readdir()>),
strip out C<'.'> and C<'..'>.

B<SECURITY NOTE:> This does NOT filter paths containing C<'..'>, like
C<'../../../../etc/passwd'>, only literal matches to C<'.'> and C<'..'>.

  @paths = File::Spec->no_upwards( readdir $dirhandle );

=item case_tolerant

Returns a true or false value indicating, respectively, that alphabetic
case is not or is significant
 when comparing file specifications.
Cygwin and Win32 accept an optional drive argument.

  $is_case_tolerant = File::Spec->case_tolerant();
```

=item file_name_is_absolute

Takes as its argument a path, and returns true if it is an absolute path.

  $is_absolute = File::Spec->file_name_is_absolute($path);

This does not consult the local filesystem on Unix, Win32, OS/2, or
Mac OS (Classic). It does consult the working environment for VMS
(see L<File::Spec::VMS/file_name_is_absolute>).

=item path
X<path>

Takes no argument. Returns the environment variable C<PATH> (or the local
platform's equivalent) as a list.

  @PATH = File::Spec->path();

=item join
X<join, path>

join is the same as catfile.

=item splitpath
X<splitpath> X<split, path>

Splits a path in to volume, directory, and filename portions. On systems
with no concept of volume, returns '' for volume.

  ($volume,$directories,$file) =
                File::Spec->splitpath($path);
  ($volume,$directories,$file)
 =
                File::Spec->splitpath($path, $no_file);

For systems with no syntax differentiating filenames from directories,
assumes that the last file is a path unless C<$no_file> is true or a
trailing separator or F</.> or F</..> is present. On Unix, this means that C<$no_file>
true makes this return ('', $path, '').

The directory portion may or may not be returned with a trailing '/'.

The results can be passed to L</catpath()> to get back a path equivalent to
(usually identical to) the original path.

=item splitdir
X<splitdir> X<split, dir>

The opposite of L</catdir>.

  @dirs = File::Spec->splitdir($directories);

C<$directories> must be only the directory portion of the path on systems
that have the concept of a volume or that have path syntax that differentiates
files from directories.

Unlike just splitting the directories on the separator, empty
directory names (C<''>) can be returned, because these are significant
on some OSes.

=item catpath()

Takes
 volume, directory and file portions and returns an entire path. Under
Unix, C<$volume> is ignored, and directory and file are concatenated. A '/' is
inserted if need be. On other OSes, C<$volume> is significant.

  $full_path = File::Spec->catpath($volume, $directory, $file);

=item abs2rel
X<abs2rel> X<absolute, path> X<relative, path>

Takes a destination path and an optional base path returns a relative path
from the base path to the destination path:

  $rel_path = File::Spec->abs2rel($path) ;
  $rel_path = File::Spec->abs2rel($path, $base) ;

If C<$base> is not present or '', then L<Cwd::cwd()|Cwd> is used. If C<$base> is
relative, then it is converted to absolute form using
L</rel2abs()>. This means that it is taken to be relative to
L<Cwd::cwd()|Cwd>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be
on two different volumes, we will not attempt to resolve the two
paths, and we will instead simply return C<$path>. Note that previous
versions
 of this module ignored the volume of C<$base>, which resulted in
garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the
C<$base> filename as well. Otherwise all path components are assumed to be
directories.

If C<$path> is relative, it is converted to absolute form using L</rel2abs()>.
This means that it is taken to be relative to L<Cwd::cwd()|Cwd>.

No checks against the filesystem are made. On VMS, there is
interaction with the working environment, as logicals and
macros are expanded.

Based on code written by Shigio Yamaguchi.

=item rel2abs()
X<rel2abs> X<absolute, path> X<relative, path>

Converts a relative path to an absolute path.

  $abs_path = File::Spec->rel2abs($path) ;
  $abs_path = File::Spec->rel2abs($path, $base) ;

If C<$base> is not present or '', then L<Cwd::cwd()|Cwd> is used. If C<$base> is relative,
then it is converted to absolute form using L</rel2abs()>. This means that it
is taken
 to be relative to L<Cwd::cwd()|Cwd>.

On systems with the concept of volume, if C<$path> and C<$base> appear to be
on two different volumes, we will not attempt to resolve the two
paths, and we will instead simply return C<$path>. Note that previous
versions of this module ignored the volume of C<$base>, which resulted in
garbage results part of the time.

On systems that have a grammar that indicates filenames, this ignores the
C<$base> filename as well. Otherwise all path components are assumed to be
directories.

If C<$path> is absolute, it is cleaned up and returned using L</canonpath>.

No checks against the filesystem are made. On VMS, there is
interaction with the working environment, as logicals and
macros are expanded.

Based on code written by Shigio Yamaguchi.

=back

For further information, please see L<File::Spec::Unix>,
L<File::Spec::Mac>, L<File::Spec::OS2>, L<File::Spec::Win32>, or
L<File::Spec::VMS>.

=head1 SEE ALSO

L<File::Spec::Unix>, L<File::Spec::Mac>, L<File::Spec::OS2>,
L<File::Spec::Win32>,

L<File::Spec::VMS>, L<File::Spec::Functions>,
L<ExtUtils::MakeMaker>

=head1 AUTHOR

Currently maintained by Ken Williams C<< <KWILLIAMS@cpan.org> >>.

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Andy Dougherty C<< <doughera@lafayette.edu> >>,
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Tim Bunce C<< <Tim.Bunce@ig.co.uk> >>.
VMS support by Charles Bailey C<< <bailey@newman.upenn.edu> >>.
OS/2 support by Ilya Zakharevich C<< <ilya@math.ohio-state.edu> >>.
Mac support by Paul Schinder C<< <schinder@pobox.com> >>, and
Thomas Wegner C<< <wegner_thomas@yahoo.com> >>.
abs2rel() and rel2abs() written by Shigio Yamaguchi C<< <shigio@tamacom.com> >>,
modified by Barrie Slaymaker C<< <barries@slaysys.com> >>.
splitpath(), splitdir(), catpath() and catdir() by Barrie Slaymaker.

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/* See
* http://www.xray.mpe.mpg.de/mailing-lists/perl5-porters/2004-11/msg00979.html
* for the details of why the BSD license is compatible with the
* AL/GPL standard perl license.
*/
/*
* Copyright (c) 2003 Constantin S. Svintsoff <kostik@iclub.nsu.ru>
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*/

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/Cwd.xs
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=pod

=head1 AUTHOR

o.flebbe@gmx.de

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Epoc.pm

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=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

An explanation of VMS file specs can be found at
L<http://h71000.www7.hp.com/doc/731FINAL/4506/4506pro_014.html#apps_locating_naming_files>.

=cut

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/VMS.pm
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=head1 NAME

File::Spec::OS2 - methods for OS/2 file specs

=head1 SYNOPSIS

require File::Spec::OS2; # Done internally by File::Spec if needed

=head1 DESCRIPTION

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

Amongst the changes made for OS/2 are...

=over 4

=item tmpdir

Modifies the list of places temp directory information is looked for.

  $ENV{TMPDIR}

$ENV{TEMP}
$ENV{TMP}
/tmp
/

=item splitpath

Volumes can be drive letters or UNC sharenames (\\server\share).

=back

=head1 COPYRIGHT

Copyright (c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=cut

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/OS2.pm
No license file was found, but licenses were detected in source scan.

License: (GPL+ or Artistic) and BSD

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/perl-PathTools.spec
No license file was found, but licenses were detected in source scan.

=back

=head1 COPYRIGHT

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This program is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

Please submit bug reports and patches to perlbug@perl.org.

=head1 SEE ALSO

L<File::Spec>

=cut

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Unix.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

File::Spec::Functions - portably perform operations on file names

=head1 SYNOPSIS

 use File::Spec::Functions;
 $x = catfile('a','b');

=head1 DESCRIPTION

This module exports convenience functions for all of the class methods
provided by File::Spec.

For a reference of available functions, please consult L<File::Spec::Unix>,
which contains the entire set, and which is inherited by the modules for
other platforms. For further information, please see L<File::Spec::Mac>,
L<File::Spec::OS2>, L<File::Spec::Win32>, or L<File::Spec::VMS>.

=head2 Exports

The following functions are exported by default.

 canonpath
 catdir
 catfile
 curdir
 rootdir
 updir
 no_upwards
 file_name_is_absolute
 path

The following functions are exported only by request.

 devnull
 tmpdir
 splitpath
 splitdir
 catpath
 abs2rel
 rel2abs

case_tolerant

All the functions may be imported using the C<:ALL> tag.

=head1 COPYRIGHT

Copyright
(c) 2004 by the Perl 5 Porters. All rights reserved.

This program is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=head1 SEE ALSO

File::Spec, File::Spec::Unix, File::Spec::Mac, File::Spec::OS2,
File::Spec::Win32, File::Spec::VMS, ExtUtils::MakeMaker

=cut

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Functions.pm
No license file was found, but licenses were detected in source scan.

=back

=head2 Note For File::Spec::Win32 Maintainers

Novell NetWare inherits its File::Spec behaviour from File::Spec::Win32.

=head1 COPYRIGHT

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This program is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

=head1 SEE ALSO

See L<File::Spec> and L<File::Spec::Unix>. This package overrides the
implementation of these methods, not the semantics.

=cut

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/lib/File/Spec/Win32.pm

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

```
/*
----------------------------------------------------------------------

  ppport.h -- Perl/Pollution/Portability Version 3.39

  Automatically created by Devel::PPPort running under perl 5.027009.

  Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
  includes in parts/inc/ instead.

  Use 'perldoc ppport.h' to view the documentation below.

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

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.39

=head1 SYNOPSIS

 perl ppport.h [options] [source files]

 Searches current directory for files if no [source files] are given

 --help                  show short help

 --version               show version

 --patch=file            write one patch file with changes
 --copy=suffix           write changed copies with suffix
 --diff=program          use diff program and options

 --compat-version=version
   provide compatibility with Perl version
 --cplusplus             accept C++ comments

 --quiet                 don't output anything except fatal errors
 --nodiag                don't show diagnostics
 --nohints               don't show hints
 --nochanges             don't suggest changes
 --nofilter              don't filter input files
```

--strip strip all script and doc functionality
from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given,
a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003.
 You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This
 reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across
 differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

  perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables
 will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

  #define NEED_function
  #define NEED_variable

For a global function or variable (used in multiple source files),
use:

  #define NEED_function_GLOBAL
  #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

  Function / Variable   Static Request   Global Request

  PL_parser   NEED_PL_parser   NEED_PL_parser_GLOBAL
  PL_signals   NEED_PL_signals   NEED_PL_signals_GLOBAL
  SvRX()   NEED_SvRX   NEED_SvRX_GLOBAL
   caller_cx()   NEED_caller_cx   NEED_caller_cx_GLOBAL
  croak_xs_usage()   NEED_croak_xs_usage   NEED_croak_xs_usage_GLOBAL
  die_sv()   NEED_die_sv   NEED_die_sv_GLOBAL
  eval_pv()   NEED_eval_pv   NEED_eval_pv_GLOBAL
  grok_bin()   NEED_grok_bin   NEED_grok_bin_GLOBAL
  grok_hex()   NEED_grok_hex   NEED_grok_hex_GLOBAL
  grok_number()   NEED_grok_number   NEED_grok_number_GLOBAL
  grok_numeric_radix()   NEED_grok_numeric_radix   NEED_grok_numeric_radix_GLOBAL
  grok_oct()   NEED_grok_oct   NEED_grok_oct_GLOBAL
  gv_fetchpvn_flags()   NEED_gv_fetchpvn_flags   NEED_gv_fetchpvn_flags_GLOBAL
  load_module()   NEED_load_module   NEED_load_module_GLOBAL
  mess()   NEED_mess   NEED_mess_GLOBAL

```
 mess_nocontext()        NEED_mess_nocontext        NEED_mess_nocontext_GLOBAL
mess_sv()              NEED_mess_sv              NEED_mess_sv_GLOBAL
mg_findext()           NEED_mg_findext           NEED_mg_findext_GLOBAL
my_snprintf()          NEED_my_snprintf          NEED_my_snprintf_GLOBAL
my_sprintf()           NEED_my_sprintf           NEED_my_sprintf_GLOBAL
my_strlcat()           NEED_my_strlcat           NEED_my_strlcat_GLOBAL
my_strlcpy()           NEED_my_strlcpy           NEED_my_strlcpy_GLOBAL
newCONSTSUB()          NEED_newCONSTSUB          NEED_newCONSTSUB_GLOBAL
newRV_noinc()          NEED_newRV_noinc          NEED_newRV_noinc_GLOBAL
newSV_type()           NEED_newSV_type           NEED_newSV_type_GLOBAL
newSVpvn_flags()       NEED_newSVpvn_flags       NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()       NEED_newSVpvn_share       NEED_newSVpvn_share_GLOBAL
pv_display()
        NEED_pv_display           NEED_pv_display_GLOBAL
pv_escape()            NEED_pv_escape            NEED_pv_escape_GLOBAL
pv_pretty()            NEED_pv_pretty            NEED_pv_pretty_GLOBAL
sv_2pv_flags()         NEED_sv_2pv_flags         NEED_sv_2pv_flags_GLOBAL
sv_2pvbyte()           NEED_sv_2pvbyte           NEED_sv_2pvbyte_GLOBAL
sv_catpvf_mg()         NEED_sv_catpvf_mg         NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags()     NEED_sv_pvn_force_flags     NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()         NEED_sv_setpvf_mg         NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
sv_unmagicext()        NEED_sv_unmagicext        NEED_sv_unmagicext_GLOBAL
vload_module()         NEED_vload_module         NEED_vload_module_GLOBAL
 vmess()               NEED_vmess                NEED_vmess_GLOBAL
vnewSVpvf()            NEED_vnewSVpvf            NEED_vnewSVpvf_GLOBAL
warner()               NEED_warner               NEED_warner_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

```
  #define DPPP_NAMESPACE MyOwnNamespace_
  #include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines

should be used, F<ppport.h> can be run as a Perl script to check your source code. Simply say:

```
  perl ppport.h
```

The result will usually be
 a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in newer Perl releases, if you're aware that it uses C++ comments, and if you want all suggestions as a single patch file, you could use something like this:

```
  perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions for changes, use:

```
  perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using the C<--diff> option:

```
  perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
  perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn> function, use:

```
  perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a
 regular expression,
you can use

```
  perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
  perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code,
 please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

```
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.39;

my %opt = (
 quiet     => 0,
 diag      => 1,
 hints     => 1,
 changes   => 1,
 cplusplus => 0,
 filter    => 1,
 strip     => 0,
 version   => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/'.'*';
my $cce  = '*'./';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt,
 qw(
   help quiet diag! filter! hints! changes! cplusplus strip version
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
```

```
};

if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
 print "This is $0 $VERSION.\n";
 exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
 }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
 $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
             ? ( $1 => {
                  ($2
                 ? ( base     => $2 ) : ()),
                  ($3                ? ( todo     => $3 ) : ()),
                  (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                  (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                  (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
                } )
             : die "invalid spec: $_" } qw(
ASCII_TO_NEED||5.007001|n
AvFILLp|5.004050||p
AvFILL|||
BhkDISABLE||5.024000|
BhkENABLE||5.024000|
BhkENTRY_set||5.024000|
BhkENTRY|||
BhkFLAGS|||
CALL_BLOCK_HOOKS|||
CLASS|||n
```

CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
C_ARRAY_END|5.013002||p
C_ARRAY_LENGTH|5.008001||p
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002|5.004050|p
Copy|||
CvPADLIST||5.008001|
CvSTASH|||
CvWEAKOUTSIDE|||
DECLARATION_FOR_LC_NUMERIC_MANIPULATION||5.021010|n
DEFSV_set|5.010001||p
DEFSV|5.004050||p
DO_UTF8||5.006000|
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvAV|||
GvCV|||
GvHV|||
GvSV|||
Gv_AMupdate||5.011000|

HEf_SVKEY|5.003070||p
HeHASH||5.003070|
HeKEY||5.003070|
HeKLEN||5.003070|
HePV||5.004000|
HeSVKEY_force||5.003070|
HeSVKEY_set||5.004000|
HeSVKEY||5.003070|
HeUTF8|5.010001|5.008000|p
HeVAL||5.003070|
HvENAMELEN||5.015004|
HvENAMEUTF8||5.015004|
HvENAME||5.013007|
HvNAMELEN_get|5.009003||p
HvNAMELEN||5.015004|
HvNAMEUTF8||5.015004|
HvNAME_get|5.009003||p
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LINKLIST||5.013006|
LVRET|||
MARK|||
MULTICALL||5.024000|
MUTABLE_PTR|5.010001||p
MUTABLE_SV|5.010001||p
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002|5.004050|p
Move|||
NATIVE_TO_NEED||5.007001|n
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p

NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||
OP_CLASS||5.013007|
OP_DESC||5.007003|
OP_NAME||5.007003|
OP_TYPE_IS_OR_WAS||5.019010|
OP_TYPE_IS||5.019007|
ORIGMARK|||
OpHAS_SIBLING|5.021007||p
OpLASTSIB_set|5.021011||p
OpMAYBESIB_set|5.021011||p
OpMORESIB_set|5.021011||p
OpSIBLING|5.021007||p
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SVl|||
PAD_SV|||
PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_ARGS_ASSERT_CROAK_XS_USAGE|||p
PERL_BCDVERSION|5.024000||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.003070||p
PERL_INT_MAX|5.003070||p
PERL_INT_MIN|5.003070||p
PERL_LONG_MAX|5.003070||p

PERL_LONG_MIN|5.003070||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.024000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.024000||p
PERL_MAGIC_nkeys|5.007002||p
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PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.024000||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
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PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
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PERL_MAGIC_tiedscalar|5.007002||p
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PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
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PERL_PV_ESCAPE_RE|5.009005||p
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PERL_PV_PRETTY_ELLIPSES|5.010000||p
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PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
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PERL_QUAD_MIN|5.003070||p
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PERL_SCAN_DISALLOW_PREFIX|5.007003||p
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PERL_SYS_TERM||5.024000|
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PL_peepp||5.007003|n
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POPu||5.004000|n
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_core_swash_init|||
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_invlist_contains_cp|||n
_invlist_dump|||
_invlist_intersection_maybe_complement_2nd|||
_invlist_intersection|||
_invlist_invert|||
_invlist_len|||n
_invlist_populate_swatch|||n
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sv_utf8_upgrade||5.007001|
sv_uv|5.005000||p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn_flags||5.017002|
sv_vcatpvfn||5.004000|
sv_vcatpvf|5.006000|5.004000|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn||5.004000|
sv_vsetpvf|5.006000|5.004000|p
svtype|||
swallow_bom|||
swash_fetch||5.007002|
swash_init||5.006000|
swash_scan_list_line|||
swatch_get|||
sync_locale||5.021004|
sys_init3||5.010000|n
sys_init||5.010000|n
sys_intern_clear|||
sys_intern_dup|||
sys_intern_init|||
sys_term||5.010000|n
taint_env|||
taint_proper|||
tied_method|||v
tmps_grow_p|||
toFOLD_utf8||5.019001|
toFOLD_uvchr||5.023009|
toFOLD||5.019001|
toLOWER_L1||5.019001|
toLOWER_LC||5.004000|
toLOWER_utf8||5.015007|
toLOWER_uvchr||5.023009|
toLOWER|||
toTITLE_utf8||5.015007|
toTITLE_uvchr||5.023009|
toTITLE||5.019001|
toUPPER_utf8||5.015007|
toUPPER_uvchr||5.023009|
toUPPER|||
to_byte_substr|||
to_lower_latin1|||n
to_uni_fold||5.007003|
to_uni_lower_lc||5.006000|
to_uni_lower||5.007003|
to_uni_title_lc||5.006000|
to_uni_title||5.007003|

to_uni_upper_lc||5.006000|
to_uni_upper||5.007003|
to_utf8_case||5.007003|
to_utf8_fold||5.015007|
to_utf8_lower||5.015007|
to_utf8_substr|||
to_utf8_title||5.015007|
to_utf8_upper||5.015007|
tokenize_use|||
tokeq|||
tokereport|||
too_few_arguments_pv|||
too_many_arguments_pv|||
translate_substr_offsets|||n
try_amagic_bin|||
try_amagic_un|||
uiv_2buf|||n
unlnk|||
unpack_rec|||
unpack_str||5.007003|
unpackstring||5.008001|
unreferenced_to_tmp_stack|||
unshare_hek_or_pvn|||
unshare_hek|||
unsharepvn||5.003070|
unwind_handler_stack|||
update_debugger_info|||
upg_version||5.009005|
usage|||
utf16_textfilter|||
utf16_to_utf8_reversed||5.006001|
utf16_to_utf8||5.006001|
utf8_distance||5.006000|
utf8_hop||5.006000|n
utf8_length||5.007001|
utf8_mg_len_cache_update|||
utf8_mg_pos_cache_update|||
utf8_to_bytes||5.006001|
utf8_to_uvchr_buf||5.015009|
utf8_to_uvchr||5.007001|
utf8_to_uvuni_buf||5.015009|
utf8_to_uvuni||5.007001|
utf8n_to_uvchr||5.007001|
utf8n_to_uvuni||5.007001|
utilize|||
uvchr_to_utf8_flags||5.007003|
uvchr_to_utf8||5.007001|
uvoffuni_to_utf8_flags||5.019004|

uvuni_to_utf8_flags||5.007003|
uvuni_to_utf8||5.007001|
valid_utf8_to_uvchr||5.015009|
valid_utf8_to_uvuni||5.015009|
validate_proto|||
validate_suid|||
varname|||
vcmp||5.009000|
vcroak||5.006000|
vdeb||5.007003|
vform||5.006000|
visit|||
vivify_defelem|||
vivify_ref|||
vload_module|5.006000||p
vmess|5.006000||p
vnewSVpvf|5.006000|5.004000|p
vnormal||5.009002|
vnumify||5.009000|
vstringify||5.009000|
vverify||5.009003|
vwarner||5.006000|
vwarn||5.006000|
wait4pid|||
warn_nocontext|||pvn
warn_sv|5.013001||p
warner_nocontext|||vn
warner|5.006000|5.004000|pv
warn|||v
was_lvalue_sub|||
watch|||
whichsig_pvn||5.015004|
whichsig_pv||5.015004|
whichsig_sv||5.015004|
whichsig|||
win32_croak_not_implemented|||n
with_queued_errors|||
wrap_op_checker||5.015008|
write_to_stderr|||
xs_boot_epilog|||
xs_handshake|||vn
xs_version_bootcheck|||
yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||

```
yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{todo};
   print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint,
 $define, $function);

sub find_api
{
 my $code = shift;
 $code =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
| "[^"\\]*(?:\\.[^"\\]*)*"
| '[^\\]*(?:\\.[^\\]*)*' }{}egsx;
 grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>) {
 if ($hint) {
   my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
   if (m{^\s*\*\s(.*?)\s*$}) {
     for (@{$hint->[1]}) {
       $h->{$_} ||= '';  # suppress warning with older perls
       $h->{$_} .= "$1\n";
     }
   }
   else { undef $hint }
 }

 $hint = [$1, [split /,?\s+/, $2]]
     if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

 if ($define) {
   if ($define->[1] =~ /\\$/) {
     $define->[1] .= $_;
```

```
  }
  else {
    if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
      my @n = find_api($define->[1]);
      push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
  }
}

$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

 if ($function) {
  if (/^}/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}

$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
  my @deps = map { s/\s+//g; $_ } split /,/, $3;
  my $d;
  for $d (map { s/\s+//g; $_ } split /,/, $1) {
    push @{$depends{$d}}, @deps;
  }
 }

 $need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

for (values %depends) {
 my %s;
 $_ = [sort grep
 !$s{$_}++, @$_];
}
```

```
if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $f =~ /$match/;
   print "\n=== $f ===\n\n";
   my $info = 0;
   if ($API{$f}{base} || $API{$f}{todo}) {
     my $base = format_version($API{$f}{base} || $API{$f}{todo});
     print "Supported at least starting from perl-$base.\n";
     $info++;
   }
   if ($API{$f}{provided}) {
     my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
     print "Support by $ppport provided back to perl-$todo.\n";
     print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
     print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
     print "\n$hints{$f}" if exists $hints{$f};
     print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
     $info++;
   }
   print "No portability information
 available.\n" unless $info;
   $count++;
 }
 $count or print "Found no API matching '$opt{'api-info'}'.";
 print "\n";
 exit 0;
}

if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{provided};
   my @flags;
   push @flags, 'explicit' if exists $need{$f};
   push @flags, 'depend'   if exists $depends{$f};
   push @flags, 'hint'     if exists $hints{$f};
   push @flags, 'warning'  if exists $warnings{$f};
   my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
   print "$f$flags\n";
 }
 exit 0;
}

my @files;
```

```
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
 my %seen;
 for (@ARGV) {
  if (-e) {
   if (-f) {
    push @files, $_ unless $seen{$_}++;
   }
   else { warn "'$_' is not a file.\n" }
  }
  else {
   my @new = grep { -f } glob $_
      or warn "'$_' does not exist.\n";
   push @files, grep { !$seen{$_}++
 } @new;
  }
 }
}
else {
 eval {
  require File::Find;
  File::Find::find(sub {
   $File::Find::name =~ /($srcext)$/i
      and push @files, $File::Find::name;
  }, '.');
 };
 if ($@) {
  @files = map { glob "*$_" } @srcext;
 }
}

if (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
  my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
  push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
  warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
 }
 @files = @in;
}

die "No input files given!\n" unless @files;
```

```
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
 unless (open IN, "<$filename") {
   warn "Unable to read from $filename: $!\n";
   next;
 }

 info("Scanning $filename ...");

 my $c = do { local $/; <IN> };
  close IN;

 my %file = (orig => $c, changes => 0);

 # Temporarily remove C/XS comments and strings from the code
 my @ccom;

 $c =~ s{
   ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
   | ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
 | ( ^$HS*\#[^\r\n]*
   | "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*'
   | / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
 }{ defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

 $file{ccom} = \@ccom;
 $file{code} = $c;
 $file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

 my $func;

 for $func (keys %API) {
   my $match = $func;
   $match .= "|$revreplace{$func}" if exists $revreplace{$func};
   if ($c =~ /\b(?:Perl_)?($match)\b/) {
     $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
     $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
     if (exists $API{$func}{provided}) {
       $file{uses_provided}{$func}++;
       if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
         $file{uses}{$func}++;
         my @deps = rec_depend($func);
```

```
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
          $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}})
{
    push @{$global{$_}{$func}}, $filename;
  }
}

$files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
 if (@{$global{needs}{$need}} > 1) {
  my @targets = @{$global{needs}{$need}};
  my @t = grep $files{$_}{needed_global}{$need}, @targets;
  @targets = @t if @t;
  @t = grep /\.xs$/i, @targets;
  @targets = @t if @t;
  my $target = shift @targets;
  $files{$target}{needs}{$need} = 'global';
  for (@{$global{needs}{$need}}) {
```

```
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
  }
 }
}

for $filename (@files) {
 exists $files{$filename} or next;

 info("=== Analyzing $filename ===");

 my %file = %{$files{$filename}};
 my $func;
 my $c = $file{code};
 my $warnings = 0;

 for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}

   { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
                          {$func$1(}g);
  }
}

 for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
 }

 for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
    }
  }
```

```
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may
not be portable below perl ",
          format_version($API{$func}{todo}), ", even with '$ppport'\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = '';
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
     elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
```

```
  my $pp = '';

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = '';
    $file{changes}++;
  }

   unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
                   || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                   || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                   || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
```

```
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s,
which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes}
= 1;
          goto fallback;
        }
```

```
      }
      mydiff(\*PATCH, $filename, $c);
    }
    else {
fallback:
      info("Suggested changes:");
      mydiff(\*STDOUT, $filename, $c);
    }
  }
  else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
  }
 }
 else {
  info("Looks good");
 }
}

close PATCH if $patch_opened;

exit 0;


sub try_use { eval "use @_;"; return $@ eq '' }

sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
  $diff = run_diff($opt{diff}, $file, $str);
 }

 if (!defined $diff and try_use('Text::Diff')) {
  $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
  $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
  $diff = run_diff('diff -u', $file, $str);
 }
```

```
 if (!defined $diff) {
   $diff = run_diff('diff', $file, $str);
 }

 if (!defined $diff) {

  error("Cannot generate a diff. Please install Text::Diff or use --copy.");
   return;
 }

 print F $diff;
}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dpppptemp';
 my $suf = 'aaa';
 my $diff = '';
 local *F;

 while (-e "$tmp.$suf") { $suf++ }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
   print F $str;
   close F;

   if (open F, "$prog $file $tmp |") {
     while (<F>) {
       s/\Q$tmp\E/$file.patched/;
       $diff .= $_;
     }
     close F;
     unlink $tmp;
     return $diff;
   }

   unlink $tmp;
 }
 else {
   error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
}

sub rec_depend
```

```
{
 my($func, $seen) = @_;
 return () unless exists $depends{$func};
 $seen = {%{$seen||{}}};
 return () if $seen->{$func}++;
 my %s;
 grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
 my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
   return ($1, $2, $3);
 }
 elsif ($ver !~ /^\d+\.[\d_]+$/)
 {
   die "cannot parse version '$ver'\n";
 }

 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "cannot parse version '$ver'\n";
   }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;
```

```
 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "invalid version '$ver'\n";
   }
   $s /= 10;

   $ver = sprintf "%d.%03d", $r, $v;
   $s > 0 and $ver .= sprintf "_%02d", $s;

   return $ver;
 }

 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
 $opt{quiet} and return;
 print @_, "\n";
}

sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
 $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my
 %given_warnings;
sub hint
{
 $opt{quiet} and return;
 my $func = shift;
 my $rv = 0;
 if (exists $warnings{$func} && !$given_warnings{$func}++) {
   my $warn = $warnings{$func};
```

```
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
 }
 if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
  my $hint = $hints{$func};
  $hint =~ s/^/   /mg;
  print "   --- hint for $func ---\n", $hint;
 }
 $rv;
}

sub usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}

sub strip
{
 my $self = do { local(@ARGV,$/)=($0); <> };
 my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
 $copy =~ s/^(?=\S+)/    /gms;
 $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
 $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if
 (\@ARGV && \$ARGV[0] eq '--unstrip') {
 eval { require Devel::PPPort };
 \$@ and die "Cannot require Devel::PPPort, please install.\\n";
 if (eval \$Devel::PPPort::VERSION < $VERSION) {
  die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
    . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
    . "Please install a newer version, or --unstrip will not work.\\n";
 }
 Devel::PPPort::WriteFile(\$0);
 exit 0;
```

```
}
print <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

 \$^X \$0 --unstrip

END
/ms;
 my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
 $c =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | ( "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*' )
 | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
 $c =~ s!\s+$!!mg;
 $c =~ s!^$LF!!mg;
 $c =~ s!^\s*#\s*!#!mg;
 $c =~ s!^\s+!!mg;

 open OUT, ">$0" or die "cannot
 strip $0: $!\n";
 print OUT "$pl$c\n";

 exit 0;
}

__DATA__
*/
```

Found in path(s):
* /perl-PathTools-3.74-1.el8.src.rpm-cosi-expand-archive-PySqImf9/PathTools-3.74.tar.gz-cosi-expand-archive-9rwxdSVg/PathTools-3.74/ppport.h

1.62 perl-digest-md5 2.55-396.el8

1.62.1 Available under license :

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

Network Working Group R. Rivest
Request for Comments: 1321 MIT Laboratory for Computer Science
and RSA Data Security, Inc.
April 1992

Status of this Memo

This memo provides information for the Internet community. It does not specify an Internet standard. Distribution of this memo is unlimited.

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1. Executive Summary

This document describes the MD5 message-digest algorithm. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input. It is conjectured that it is computationally infeasible to produce two messages having the same message digest, or to produce any message having a given prespecified target message digest. The MD5 algorithm is intended for digital signature applications, where a large file must be "compressed" in a secure manner before being encrypted with a private (secret) key under a public-key cryptosystem such as RSA.

Open Source Used In cisco-dna-spaces-connector30-iot-wireless 3.0 548

The MD5 algorithm is designed to be quite fast on 32-bit machines. In addition, the MD5 algorithm does not require any large substitution tables; the algorithm can be coded quite compactly.

The MD5 algorithm is an extension of the MD4 message-digest algorithm 1,2]. MD5 is slightly slower than MD4, but is more "conservative" in design. MD5 was designed because it was felt that MD4 was perhaps being adopted for use more quickly than justified by the existing critical review; because MD4 was designed to be exceptionally fast, it is "at the edge" in terms of risking successful cryptanalytic attack. MD5 backs off a bit, giving up a little in speed for a much greater likelihood of ultimate security. It incorporates some suggestions made by various reviewers, and contains additional optimizations. The MD5 algorithm is being placed in the public domain for review and possible adoption as a standard.

For OSI-based applications, MD5's object identifier is

md5 OBJECT IDENTIFIER ::=
iso(1) member-body(2) US(840) rsadsi(113549) digestAlgorithm(2) 5}

In the X.509 type AlgorithmIdentifier [3], the parameters for MD5 should have type NULL.

2. Terminology and Notation

In this document a "word" is a 32-bit quantity and a "byte" is an eight-bit quantity. A sequence of bits can be interpreted in a natural manner as a sequence of bytes, where each consecutive group of eight bits is interpreted as a byte with the high-order (most significant) bit of each byte listed first. Similarly, a sequence of bytes can be interpreted as a sequence of 32-bit words, where each consecutive group of four bytes is interpreted as a word with the low-order (least significant) byte given first.

Let x_i denote "x sub i". If the subscript is an expression, we surround it in braces, as in x_{i+1}. Similarly, we use ^ for superscripts (exponentiation), so that x^i denotes x to the i-th power.

Let the symbol "+" denote addition of words (i.e., modulo-2^32 addition). Let X <<< s denote the 32-bit value obtained by circularly

shifting (rotating) X left by s bit positions. Let not(X) denote the bit-wise complement of X, and let X v Y denote the bit-wise OR of X and Y. Let X xor Y denote the bit-wise XOR of X and Y, and let XY denote the bit-wise AND of X and Y.

3. MD5 Algorithm Description

We begin by supposing that we have a b-bit message as input, and that we wish to find its message digest. Here b is an arbitrary nonnegative integer; b may be zero, it need not be a multiple of eight, and it may be arbitrarily large. We imagine the bits of the message written down as follows:

m_0 m_1 ... m_{b-1}

The following five steps are performed to compute the message digest of the message.

3.1 Step 1. Append Padding Bits

The message is "padded" (extended) so that its length (in bits) is congruent to 448, modulo 512. That is, the message is extended so that it is just 64 bits shy of being a multiple of 512 bits long. Padding is always performed, even if the length of the message is already congruent to 448, modulo 512.

Padding is performed as follows: a single "1" bit is appended to the message, and then "0" bits are appended so that the length in bits of the padded message becomes congruent to 448, modulo 512. In all, at least one bit and at most 512 bits are appended.

3.2 Step 2. Append Length

A 64-bit representation of b (the length of the message before the padding bits were added) is appended to the result of the previous step. In the unlikely event that b is greater than 2^64, then only the low-order 64 bits of b are used. (These bits are appended as two

32-bit words and appended low-order word first in accordance with the previous conventions.)

At this point the resulting message (after padding with bits and with b) has a length that is an exact multiple of 512 bits. Equivalently, this message has a length that is an exact multiple of 16 (32-bit) words. Let M[0 ... N-1] denote the words of the resulting message, where N is a multiple of 16.

3.3 Step 3. Initialize MD Buffer

A four-word buffer (A,B,C,D) is used to compute the message digest. Here each of A, B, C, D is a 32-bit register. These registers are initialized to the following values in hexadecimal, low-order bytes first):

word A: 01 23 45 67
word B: 89 ab cd ef
word C: fe dc ba 98
word D: 76 54 32 10

3.4 Step 4. Process Message in 16-Word Blocks

We first define four auxiliary functions that each take as input three 32-bit words and produce as output one 32-bit word.

F(X,Y,Z) = XY v not(X) Z
G(X,Y,Z) = XZ v Y not(Z)
H(X,Y,Z) = X xor Y xor Z
I(X,Y,Z) = Y xor (X v not(Z))

In each bit position F acts as a conditional: if X then Y else Z. The function F could have been defined using + instead of v since XY and not(X)Z will never have 1's in the same bit position.) It is interesting to note that if the bits of X, Y, and Z are independent and unbiased, the each bit of F(X,Y,Z) will be independent and unbiased.

The functions G, H, and I are similar to the function F, in that they act in "bitwise parallel" to produce their output from the bits of X,

Y, and Z, in such a manner that if the corresponding
bits of X, Y,
and Z are independent and unbiased, then each bit of G(X,Y,Z),
H(X,Y,Z), and I(X,Y,Z) will be independent and unbiased. Note that
the function H is the bit-wise "xor" or "parity" function of its
inputs.

This step uses a 64-element table T[1 ... 64] constructed from the
sine function. Let T[i] denote the i-th element of the table, which
is equal to the integer part of 4294967296 times abs(sin(i)), where i
is in radians. The elements of the table are given in the appendix.

Do the following:

```
/* Process each 16-word block. */
For i = 0 to N/16-1 do

  /* Copy block i into X. */
  For j = 0 to 15 do
    Set X[j] to M[i*16+j].
  end /* of loop on j */

  /* Save A as AA, B as BB, C as CC, and D as DD. */
  AA = A
  BB = B
```



```
  CC = C
  DD = D

  /* Round
1. */
  /* Let [abcd k s i] denote the operation
       a = b + ((a + F(b,c,d) + X[k] + T[i]) <<< s). */
  /* Do the following 16 operations. */
  [ABCD  0  7  1]  [DABC  1 12  2]  [CDAB  2 17  3]  [BCDA  3 22  4]
  [ABCD  4  7  5]  [DABC  5 12  6]  [CDAB  6 17  7]  [BCDA  7 22  8]
  [ABCD  8  7  9]  [DABC  9 12 10]  [CDAB 10 17 11]  [BCDA 11 22 12]
  [ABCD 12  7 13]  [DABC 13 12 14]  [CDAB 14 17 15]  [BCDA 15 22 16]

  /* Round 2. */
  /* Let [abcd k s i] denote the operation
```

```
      a = b + ((a + G(b,c,d) + X[k] + T[i]) <<< s). */
   /* Do the following 16 operations. */
   [ABCD  1  5 17]  [DABC  6  9 18]  [CDAB 11 14 19]  [BCDA  0 20 20]
   [ABCD  5  5 21]  [DABC 10  9 22]  [CDAB 15 14 23]  [BCDA  4 20 24]
   [ABCD  9  5 25]  [DABC 14  9 26]  [CDAB  3 14 27]  [BCDA  8 20 28]
   [ABCD 13  5 29]  [DABC  2  9 30]  [CDAB  7 14 31]  [BCDA 12 20 32]

   /* Round 3. */
   /* Let [abcd k s t] denote the operation
        a = b + ((a + H(b,c,d)
+ X[k] + T[i]) <<< s). */
   /* Do the following 16 operations. */
   [ABCD  5  4 33]  [DABC  8 11 34]  [CDAB 11 16 35]  [BCDA 14 23 36]
   [ABCD  1  4 37]  [DABC  4 11 38]  [CDAB  7 16 39]  [BCDA 10 23 40]
   [ABCD 13  4 41]  [DABC  0 11 42]  [CDAB  3 16 43]  [BCDA  6 23 44]
   [ABCD  9  4 45]  [DABC 12 11 46]  [CDAB 15 16 47]  [BCDA  2 23 48]

   /* Round 4. */
   /* Let [abcd k s t] denote the operation
        a = b + ((a + I(b,c,d) + X[k] + T[i]) <<< s). */
   /* Do the following 16 operations. */
   [ABCD  0  6 49]  [DABC  7 10 50]  [CDAB 14 15 51]  [BCDA  5 21 52]
   [ABCD 12  6 53]  [DABC  3 10 54]  [CDAB 10 15 55]  [BCDA  1 21 56]
   [ABCD  8  6 57]  [DABC 15 10 58]  [CDAB  6 15 59]  [BCDA 13 21 60]
   [ABCD  4  6 61]  [DABC 11 10 62]  [CDAB  2 15 63]  [BCDA  9 21 64]

   /* Then perform the following additions. (That is increment each
      of the four registers by the value it had before this block
      was started.) */
   A = A + AA
   B
= B + BB
   C = C + CC
   D = D + DD

  end /* of loop on i */
```


3.5 Step 5. Output

The message digest produced as output is A, B, C, D. That is, we begin with the low-order byte of A, and end with the high-order byte

of D.

This completes the description of MD5. A reference implementation in C is given in the appendix.

4. Summary

The MD5 message-digest algorithm is simple to implement, and provides a "fingerprint" or message digest of a message of arbitrary length. It is conjectured that the difficulty of coming up with two messages having the same message digest is on the order of 2^64 operations, and that the difficulty of coming up with any message having a given message digest is on the order of 2^128 operations. The MD5 algorithm has been carefully scrutinized for weaknesses. It is, however, a relatively new algorithm and further security analysis is of course justified, as is the case with any new proposal of this sort.

5. Differences Between MD4 and MD5

The following are the differences between MD4 and MD5:

1. A fourth round has been added.

2. Each step now has a unique additive constant.

3. The function g in round 2 was changed from (XY v XZ v YZ) to (XZ v Y not(Z)) to make g less symmetric.

4. Each step now adds in the result of the previous step. This promotes a faster "avalanche effect".

5. The order in which input words are accessed in rounds 2 and 3 is changed, to make these patterns less like each other.

6. The shift amounts in each round have been approximately optimized, to yield a faster "avalanche effect." The shifts in different rounds are distinct.

References

[1] Rivest, R., "The MD4 Message Digest Algorithm", RFC 1320, MIT and RSA Data Security, Inc., April 1992.

[2] Rivest, R., "The MD4 message digest algorithm", in A.J. Menezes and S.A. Vanstone, editors, Advances in Cryptology - CRYPTO '90 Proceedings, pages 303-311, Springer-Verlag, 1991.

[3] CCITT Recommendation X.509 (1988), "The Directory - Authentication Framework."

APPENDIX A - Reference Implementation

This appendix contains the following files taken from RSAREF: A Cryptographic Toolkit for Privacy-Enhanced Mail:

global.h -- global header file

md5.h -- header file for MD5

md5c.c -- source code for MD5

For more information on RSAREF, send email to <rsaref@rsa.com>.

The appendix also includes the following file:

mddriver.c -- test driver for MD2, MD4 and MD5

The driver compiles for MD5 by default but can compile for MD2 or MD4 if the symbol MD is defined on the C compiler command line as 2 or 4.

The implementation is portable and should work on many different plaforms. However, it is not difficult to optimize the implementation on particular platforms, an exercise left to the reader. For example, on "little-endian" platforms where the lowest-addressed byte in a 32-bit word is the least significant and there are no alignment restrictions, the call to Decode in MD5Transform can be replaced with a typecast.

A.1 global.h

```
/* GLOBAL.H - RSAREF types and constants
*/

/* PROTOTYPES should be set to one if and only if the compiler supports
 function argument prototyping.
The following makes PROTOTYPES default to 0 if it has not already
```



```
 been defined with C compiler flags.
*/
#ifndef PROTOTYPES
#define PROTOTYPES 0
#endif

/* POINTER defines
 a generic pointer type */
typedef unsigned char *POINTER;

/* UINT2 defines a two byte word */
typedef unsigned short int UINT2;

/* UINT4 defines a four byte word */
typedef unsigned long int UINT4;

/* PROTO_LIST is defined depending on how PROTOTYPES is defined above.
If using PROTOTYPES, then PROTO_LIST returns the list, otherwise it
 returns an empty list.
*/
#if PROTOTYPES
#define PROTO_LIST(list) list
#else
#define PROTO_LIST(list) ()
#endif
```

A.2 md5.h

```
/* MD5.H - header file for MD5C.C
*/

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
rights reserved.
```

License to copy and use this software is granted provided that it
is identified as the "RSA Data Security, Inc. MD5 Message-Digest
Algorithm" in all material mentioning or referencing this software
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These notices must be retained in any copies of any part of this
documentation and/or software.
*/

```
/* MD5 context. */
typedef struct {
 UINT4 state[4];                              /* state (ABCD) */
 UINT4 count[2];        /* number of bits, modulo 2^64 (lsb first) */
 unsigned char buffer[64];                    /* input buffer */
} MD5_CTX;

void MD5Init PROTO_LIST ((MD5_CTX *));
void MD5Update PROTO_LIST
 ((MD5_CTX *, unsigned char *, unsigned int));
void MD5Final PROTO_LIST ((unsigned char [16], MD5_CTX *));
```

A.3 md5c.c

```
/* MD5C.C -
 RSA Data Security, Inc., MD5 message-digest algorithm
*/
```

/* Copyright (C) 1991-2, RSA Data Security, Inc. Created 1991. All
rights reserved.

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is identified as the "RSA Data Security, Inc. MD5 Message-Digest
Algorithm" in all material mentioning or referencing this software
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documentation and/or software.
*/

#include "global.h"
#include "md5.h"

/* Constants for MD5Transform
 routine.
*/

#define S11 7
#define S12 12
#define S13 17
#define S14 22
#define S21 5
#define S22 9
#define S23 14
#define S24 20
#define S31 4
#define S32 11
#define S33 16
#define S34 23
#define S41 6
#define S42 10

```
#define S43 15
#define S44 21

static void MD5Transform PROTO_LIST ((UINT4 [4], unsigned char [64]));
static void Encode PROTO_LIST
 ((unsigned char *, UINT4 *, unsigned int));
static void Decode PROTO_LIST
 ((UINT4 *, unsigned char *, unsigned int));
static void MD5_memcpy PROTO_LIST ((POINTER, POINTER, unsigned int));
static void MD5_memset PROTO_LIST ((POINTER, int, unsigned int));

static unsigned char PADDING[64] = {
 0x80, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
 0
};

/* F, G, H and I are basic MD5 functions.
*/
#define F(x, y, z) (((x) & (y)) | ((~x) & (z)))
#define G(x, y, z) (((x) & (z)) | ((y) & (~z)))
#define H(x, y, z) ((x) ^ (y) ^ (z))
#define I(x, y, z) ((y) ^ ((x) | (~z)))

/* ROTATE_LEFT rotates x left n bits.
*/
#define ROTATE_LEFT(x, n) (((x) << (n)) | ((x) >> (32-(n))))

/* FF, GG, HH, and II transformations for rounds 1, 2, 3, and 4.
Rotation is separate from addition to prevent recomputation.
*/
#define FF(a, b, c, d, x, s, ac) { \
(a) += F ((b), (c), (d)) + (x) + (UINT4)(ac); \
(a) = ROTATE_LEFT ((a), (s)); \
```



```
(a) += (b); \
 }
#define GG(a, b, c, d, x, s, ac) { \
(a) += G ((b), (c), (d)) + (x) + (UINT4)(ac); \
(a) = ROTATE_LEFT ((a), (s)); \
```

```
(a) += (b); \
 }
#define HH(a, b, c, d, x, s, ac) { \
(a) += H ((b), (c), (d)) + (x) + (UINT4)(ac); \
(a) = ROTATE_LEFT ((a),
 (s)); \
(a) += (b); \
 }
#define II(a, b, c, d, x, s, ac) { \
(a) += I ((b), (c), (d)) + (x) + (UINT4)(ac); \
(a) = ROTATE_LEFT ((a), (s)); \
(a) += (b); \
 }

/* MD5 initialization. Begins an MD5 operation, writing a new context.
*/
void MD5Init (context)
MD5_CTX *context;                                /* context */
{
 context->count[0] = context->count[1] = 0;
 /* Load magic initialization constants.
*/
 context->state[0] = 0x67452301;
 context->state[1] = 0xefcdab89;
 context->state[2] = 0x98badcfe;
 context->state[3] = 0x10325476;
}

/* MD5 block update operation. Continues an MD5 message-digest
 operation, processing another message block, and updating the
 context.
*/
void MD5Update (context, input, inputLen)
MD5_CTX *context;                                /* context */
unsigned char *input;                            /* input block */
unsigned int inputLen;                   /* length of input block */
{
 unsigned int i, index, partLen;

  /* Compute number of bytes mod 64 */
 index = (unsigned int)((context->count[0] >> 3) & 0x3F);

 /* Update number of bits */
 if ((context->count[0] += ((UINT4)inputLen << 3))
```

```
  < ((UINT4)inputLen << 3))
context->count[1]++;
 context->count[1] += ((UINT4)inputLen >> 29);

 partLen = 64 - index;

 /* Transform as many times as possible.
*/
 if (inputLen >= partLen) {
MD5_memcpy
  ((POINTER)&context->buffer[index], (POINTER)input, partLen);
MD5Transform (context->state, context->buffer);

for (i = partLen; i + 63 < inputLen; i += 64)
  MD5Transform (context->state, &input[i]);

index = 0;
 }
 else
i = 0;

 /* Buffer remaining input */
 MD5_memcpy
((POINTER)&context->buffer[index], (POINTER)&input[i],
 inputLen-i);
}

/* MD5 finalization. Ends an MD5 message-digest operation, writing the
 the message digest and
 zeroizing the context.
*/
void MD5Final (digest, context)
unsigned char digest[16];                    /* message digest */
MD5_CTX *context;                                 /* context */
{
 unsigned char bits[8];
 unsigned int index, padLen;

 /* Save number of bits */
 Encode (bits, context->count, 8);

 /* Pad out to 56 mod 64.
*/
 index = (unsigned int)((context->count[0] >> 3) & 0x3f);
```

```
 padLen = (index < 56) ? (56 - index) : (120 - index);
 MD5Update (context, PADDING, padLen);

 /* Append length (before padding) */
 MD5Update (context, bits, 8);
```



```
 /* Store state in digest */
 Encode (digest, context->state, 16);

 /* Zeroize sensitive information.
*/
 MD5_memset ((POINTER)context, 0, sizeof (*context));
}

/* MD5 basic transformation. Transforms state based on block.
*/
static void MD5Transform (state, block)
UINT4
 state[4];
unsigned char block[64];
{
 UINT4 a = state[0], b = state[1], c = state[2], d = state[3], x[16];

 Decode (x, block, 64);

 /* Round 1 */
 FF (a, b, c, d, x[ 0], S11, 0xd76aa478); /* 1 */
 FF (d, a, b, c, x[ 1], S12, 0xe8c7b756); /* 2 */
 FF (c, d, a, b, x[ 2], S13, 0x242070db); /* 3 */
 FF (b, c, d, a, x[ 3], S14, 0xc1bdceee); /* 4 */
 FF (a, b, c, d, x[ 4], S11, 0xf57c0faf); /* 5 */
 FF (d, a, b, c, x[ 5], S12, 0x4787c62a); /* 6 */
 FF (c, d, a, b, x[ 6], S13, 0xa8304613); /* 7 */
 FF (b, c, d, a, x[ 7], S14, 0xfd469501); /* 8 */
 FF (a, b, c, d, x[ 8], S11, 0x698098d8); /* 9 */
 FF (d, a, b, c, x[ 9], S12, 0x8b44f7af); /* 10 */
 FF (c, d, a, b, x[10], S13, 0xffff5bb1); /* 11 */
 FF (b, c, d, a, x[11], S14, 0x895cd7be); /* 12 */
 FF (a, b, c, d, x[12], S11, 0x6b901122); /* 13 */
 FF (d, a, b, c, x[13], S12, 0xfd987193); /* 14 */
 FF (c, d, a, b, x[14], S13, 0xa679438e); /* 15 */
```

```
 FF (b, c, d, a, x[15], S14, 0x49b40821); /* 16 */

/* Round 2 */
  GG (a, b, c, d, x[ 1], S21, 0xf61e2562); /* 17 */
 GG (d, a, b, c, x[ 6], S22, 0xc040b340); /* 18 */
 GG (c, d, a, b, x[11], S23, 0x265e5a51); /* 19 */
 GG (b, c, d, a, x[ 0], S24, 0xe9b6c7aa); /* 20 */
 GG (a, b, c, d, x[ 5], S21, 0xd62f105d); /* 21 */
 GG (d, a, b, c, x[10], S22,  0x2441453); /* 22 */
 GG (c, d, a, b, x[15], S23, 0xd8a1e681); /* 23 */
 GG (b, c, d, a, x[ 4], S24, 0xe7d3fbc8); /* 24 */
 GG (a, b, c, d, x[ 9], S21, 0x21e1cde6); /* 25 */
 GG (d, a, b, c, x[14], S22, 0xc33707d6); /* 26 */
 GG (c, d, a, b, x[ 3], S23, 0xf4d50d87); /* 27 */
```



```
 GG (b, c, d, a, x[ 8], S24, 0x455a14ed); /* 28 */
 GG (a, b, c, d, x[13], S21, 0xa9e3e905); /* 29 */
 GG (d, a, b, c, x[ 2], S22, 0xfcefa3f8); /* 30 */
 GG (c, d, a, b, x[ 7], S23, 0x676f02d9); /* 31 */
 GG (b, c, d, a, x[12], S24, 0x8d2a4c8a); /* 32 */

 /* Round 3
 */
 HH (a, b, c, d, x[ 5], S31, 0xfffa3942); /* 33 */
 HH (d, a, b, c, x[ 8], S32, 0x8771f681); /* 34 */
 HH (c, d, a, b, x[11], S33, 0x6d9d6122); /* 35 */
 HH (b, c, d, a, x[14], S34, 0xfde5380c); /* 36 */
 HH (a, b, c, d, x[ 1], S31, 0xa4beea44); /* 37 */
 HH (d, a, b, c, x[ 4], S32, 0x4bdecfa9); /* 38 */
 HH (c, d, a, b, x[ 7], S33, 0xf6bb4b60); /* 39 */
 HH (b, c, d, a, x[10], S34, 0xbebfbc70); /* 40 */
 HH (a, b, c, d, x[13], S31, 0x289b7ec6); /* 41 */
 HH (d, a, b, c, x[ 0], S32, 0xeaa127fa); /* 42 */
 HH (c, d, a, b, x[ 3], S33, 0xd4ef3085); /* 43 */
 HH (b, c, d, a, x[ 6], S34,  0x4881d05); /* 44 */
 HH (a, b, c, d, x[ 9], S31, 0xd9d4d039); /* 45 */
 HH (d, a, b, c, x[12], S32, 0xe6db99e5); /* 46 */
 HH (c, d, a, b, x[15], S33, 0x1fa27cf8); /* 47 */
 HH (b, c, d, a, x[ 2], S34, 0xc4ac5665); /* 48 */

 /* Round 4 */
```

```
 II (a, b, c, d, x[ 0], S41, 0xf4292244); /* 49 */
 II (d, a, b, c, x[ 7], S42, 0x432aff97); /* 50 */
 II (c, d, a, b, x[14], S43, 0xab9423a7);
 /* 51 */
 II (b, c, d, a, x[ 5], S44, 0xfc93a039); /* 52 */
 II (a, b, c, d, x[12], S41, 0x655b59c3); /* 53 */
 II (d, a, b, c, x[ 3], S42, 0x8f0ccc92); /* 54 */
 II (c, d, a, b, x[10], S43, 0xffeff47d); /* 55 */
 II (b, c, d, a, x[ 1], S44, 0x85845dd1); /* 56 */
 II (a, b, c, d, x[ 8], S41, 0x6fa87e4f); /* 57 */
 II (d, a, b, c, x[15], S42, 0xfe2ce6e0); /* 58 */
 II (c, d, a, b, x[ 6], S43, 0xa3014314); /* 59 */
 II (b, c, d, a, x[13], S44, 0x4e0811a1); /* 60 */
 II (a, b, c, d, x[ 4], S41, 0xf7537e82); /* 61 */
 II (d, a, b, c, x[11], S42, 0xbd3af235); /* 62 */
 II (c, d, a, b, x[ 2], S43, 0x2ad7d2bb); /* 63 */
 II (b, c, d, a, x[ 9], S44, 0xeb86d391); /* 64 */

 state[0] += a;
 state[1] += b;
 state[2] += c;
 state[3] += d;

 /* Zeroize sensitive information.
```



```
*/
 MD5_memset ((POINTER)x, 0, sizeof (x));
}

/* Encodes
 input (UINT4) into output (unsigned char). Assumes len is
 a multiple of 4.
*/
static void Encode (output, input, len)
unsigned char *output;
UINT4 *input;
unsigned int len;
{
 unsigned int i, j;

 for (i = 0, j = 0; j < len; i++, j += 4) {
```

```
output[j] = (unsigned char)(input[i] & 0xff);
output[j+1] = (unsigned char)((input[i] >> 8) & 0xff);
output[j+2] = (unsigned char)((input[i] >> 16) & 0xff);
output[j+3] = (unsigned char)((input[i] >> 24) & 0xff);
 }
}

/* Decodes input (unsigned char) into output (UINT4). Assumes len is
 a multiple of 4.
*/
static void Decode (output, input, len)
UINT4 *output;
unsigned char *input;
unsigned int len;
{
 unsigned int i, j;

 for (i = 0, j = 0; j < len; i++, j += 4)
output[i] = ((UINT4)input[j]) | (((UINT4)input[j+1]) << 8) |
  (((UINT4)input[j+2]) << 16) | (((UINT4)input[j+3]) << 24);
}

/* Note: Replace "for loop" with standard memcpy if possible.
*/

static void MD5_memcpy (output, input, len)
POINTER output;
POINTER input;
unsigned
 int len;
{
 unsigned int i;

 for (i = 0; i < len; i++)
```



```
output[i] = input[i];
}

/* Note: Replace "for loop" with standard memset if possible.
*/
static void MD5_memset (output, value, len)
```

```
POINTER output;
int value;
unsigned int len;
{
 unsigned int i;

 for (i = 0; i < len; i++)
((char *)output)[i] = (char)value;
}
```

A.4 mddriver.c

```
/* MDDRIVER.C - test driver for MD2, MD4 and MD5
*/

/* Copyright (C) 1990-2, RSA Data Security, Inc. Created 1990. All
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documentation and/or software.
*/

/* The following makes
 MD default to MD5 if it has not already been
 defined with C compiler flags.
*/
#ifndef MD
#define MD MD5
#endif

#include <stdio.h>
#include <time.h>
#include <string.h>
#include "global.h"
#if MD == 2
#include "md2.h"
#endif
#if MD == 4
```

```
#include "md4.h"
#endif
#if MD == 5
#include "md5.h"
#endif

/* Length of test block, number of test blocks.
*/
#define TEST_BLOCK_LEN 1000
#define TEST_BLOCK_COUNT 1000

static void MDString PROTO_LIST ((char *));
static void MDTimeTrial PROTO_LIST ((void));
static void MDTestSuite PROTO_LIST ((void));
static void MDFile PROTO_LIST ((char *));
static void MDFilter PROTO_LIST ((void));
static void MDPrint PROTO_LIST ((unsigned char [16]));

#if MD == 2
#define MD_CTX MD2_CTX
#define MDInit MD2Init
#define MDUpdate MD2Update
#define MDFinal MD2Final
#endif
#if MD == 4
#define MD_CTX MD4_CTX
#define
 MDInit MD4Init
#define MDUpdate MD4Update
#define MDFinal MD4Final
#endif
#if MD == 5
#define MD_CTX MD5_CTX
#define MDInit MD5Init
#define MDUpdate MD5Update
#define MDFinal MD5Final
#endif

/* Main driver.

Arguments (may be any combination):
 -sstring - digests string
 -t       - runs time trial
 -x       - runs test script
 filename - digests file
```

```
 (none)   - digests standard input
*/
int main (argc, argv)
int argc;
```



```
char *argv[];
{
 int i;

 if (argc > 1)
for (i = 1; i < argc; i++)
  if (argv[i][0] == '-' && argv[i][1] == 's')
    MDString (argv[i] + 2);
  else if (strcmp (argv[i], "-t") == 0)
    MDTimeTrial ();
  else if (strcmp (argv[i], "-x") == 0)
    MDTestSuite ();
  else
    MDFile (argv[i]);
 else
MDFilter ();

 return (0);
}

/* Digests a string and prints the result.
*/
static void MDString (string)
char
 *string;
{
 MD_CTX context;
 unsigned char digest[16];
 unsigned int len = strlen (string);

 MDInit (&context);
 MDUpdate (&context, string, len);
 MDFinal (digest, &context);

 printf ("MD%d (\"%s\") = ", MD, string);
 MDPrint (digest);
```

```
 printf ("\n");
}

/* Measures the time to digest TEST_BLOCK_COUNT TEST_BLOCK_LEN-byte
 blocks.
*/
static void MDTimeTrial ()
{
 MD_CTX context;
 time_t endTime, startTime;
 unsigned char block[TEST_BLOCK_LEN], digest[16];
 unsigned int i;
```



```
 printf
("MD%d time trial. Digesting %d %d-byte blocks ...", MD,
 TEST_BLOCK_LEN, TEST_BLOCK_COUNT);

 /* Initialize block */
 for (i = 0; i < TEST_BLOCK_LEN; i++)
block[i] = (unsigned char)(i & 0xff);

 /* Start timer */
 time (&startTime);

 /* Digest blocks */
 MDInit (&context);
 for (i = 0; i < TEST_BLOCK_COUNT; i++)
MDUpdate
 (&context, block, TEST_BLOCK_LEN);
 MDFinal (digest, &context);

 /* Stop timer */
 time (&endTime);

 printf (" done\n");
 printf ("Digest = ");
 MDPrint (digest);
 printf ("\nTime = %ld seconds\n", (long)(endTime-startTime));
 printf
("Speed = %ld bytes/second\n",
```

```
 (long)TEST_BLOCK_LEN * (long)TEST_BLOCK_COUNT/(endTime-startTime));
}

/* Digests a reference suite of strings and prints the results.
*/
static void MDTestSuite ()
{
 printf ("MD%d test suite:\n", MD);

 MDString ("");
 MDString ("a");
 MDString ("abc");
 MDString ("message digest");
 MDString ("abcdefghijklmnopqrstuvwxyz");
 MDString
("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789");
 MDString
("1234567890123456789012345678901234567890\
12345678901234567890123456789012345678890");
}

/* Digests a file and prints the result.
```



```
*/
static
 void MDFile (filename)
char *filename;
{
 FILE *file;
 MD_CTX context;
 int len;
 unsigned char buffer[1024], digest[16];

 if ((file = fopen (filename, "rb")) == NULL)
printf ("%s can't be opened\n", filename);

 else {
MDInit (&context);
while (len = fread (buffer, 1, 1024, file))
  MDUpdate (&context, buffer, len);
MDFinal (digest, &context);
```

```
fclose (file);

printf ("MD%d (%s) = ", MD, filename);
MDPrint (digest);
printf ("\n");
 }
}

/* Digests the standard input and prints the result.
*/
static void MDFilter ()
{
 MD_CTX context;
 int len;
 unsigned char buffer[16], digest[16];

 MDInit (&context);
 while (len = fread (buffer, 1, 16, stdin))
MDUpdate (&context, buffer, len);
 MDFinal (digest, &context);

 MDPrint (digest);
 printf ("\n");
}

/* Prints a message digest in hexadecimal.
*/
static void MDPrint (digest)
unsigned char digest[16];
{
```



```
 unsigned int i;

 for (i = 0; i < 16; i++)
printf ("%02x", digest[i]);
}
```

A.5 Test suite

The MD5 test suite (driver option "-x") should print the following results:

MD5 test suite:
MD5 ("") = d41d8cd98f00b204e9800998ecf8427e
MD5 ("a") = 0cc175b9c0f1b6a831c399e269772661
MD5 ("abc") = 900150983cd24fb0d6963f7d28e17f72
MD5 ("message digest") = f96b697d7cb7938d525a2f31aaf161d0
MD5 ("abcdefghijklmnopqrstuvwxyz") = c3fcd3d76192e4007dfb496cca67e13b
MD5 ("ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz0123456789") = d174ab98d277d9f5a5611c2c9f419d9f
MD5 ("12345678901234567890123456789012345678901234567890123456789012345678901234567890") = 57edf4a22be3c955ac49da2e2107b67a

Security Considerations

The level of security discussed in this memo is considered to be sufficient for implementing very high security hybrid digital-signature schemes based on MD5 and a public-key cryptosystem.

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Found in path(s):
* /perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-

archive-xOrAnhrN/Digest-MD5-2.55/rfc1321.txt
No license file was found, but licenses were detected in source scan.

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Found in path(s):
* /perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/perl-Digest-MD5.spec
No license file was found, but licenses were detected in source scan.

The Digest::MD5 module allows you to use the RSA Data Security
Inc. MD5 Message Digest algorithm from within Perl programs. The
algorithm takes as input a message of arbitrary length and produces as
output a 128-bit "fingerprint" or "message digest" of the input.
MD5 is described in RFC 1321.

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* /perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Digest::MD5 - Perl interface to the MD5 Algorithm

=head1 SYNOPSIS

```
# Functional style
use Digest::MD5 qw(md5 md5_hex md5_base64);

$digest = md5($data);
$digest = md5_hex($data);
$digest = md5_base64($data);

# OO style
use Digest::MD5;

$ctx = Digest::MD5->new;

$ctx->add($data);
$ctx->addfile($file_handle);
```

$digest = $ctx->digest;
$digest = $ctx->hexdigest;
$digest = $ctx->b64digest;

=head1 DESCRIPTION

The C<Digest::MD5> module allows you to use the RSA Data Security Inc. MD5 Message Digest algorithm from within Perl programs. The algorithm takes as input a message of arbitrary length and produces as output a 128-bit "fingerprint" or "message digest" of the input.

Note that the MD5 algorithm is not as strong as it used to be. It has since 2005 been easy to generate different messages that produce the same MD5 digest. It still seems hard to generate messages that produce a given digest,
but it is probably wise to move to stronger
algorithms for applications that depend on the digest to uniquely identify a message.

The C<Digest::MD5> module provide a procedural interface for simple use, as well as an object oriented interface that can handle messages of arbitrary length and which can read files directly.

=head1 FUNCTIONS

The following functions are provided by the C<Digest::MD5> module. None of these functions are exported by default.

=over 4

=item md5($data,...)

This function will concatenate all arguments, calculate the MD5 digest of this "message", and return it in binary form. The returned string will be 16 bytes long.

The result of md5("a", "b", "c") will be exactly the same as the result of md5("abc").

=item md5_hex($data,...)

Same as md5(), but will return the digest in hexadecimal form. The length of the returned string will be 32 and it will only contain characters from this set: '0'..'9' and 'a'..'f'.

=item md5_base64($data,...)

Same as md5(),

but will return the digest as a base64 encoded string.
The length of the returned string will be 22 and it will only contain
characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+' and
'/'.

Note that the base64 encoded string returned is not padded to be a
multiple of 4 bytes long. If you want interoperability with other
base64 encoded md5 digests you might want to append the redundant
string "==" to the result.

=back

=head1 METHODS

The object oriented interface to C<Digest::MD5> is described in this
section. After a C<Digest::MD5> object has been created, you will add
data to it and finally ask for the digest in a suitable format. A
single object can be used to calculate multiple digests.

The following methods are provided:

=over 4

=item $md5 = Digest::MD5->new

The constructor returns a new C<Digest::MD5> object which encapsulate
the state of the MD5 message-digest algorithm.

If called as an instance method (i.e. $md5->new) it will just reset the
state the object to
the state of a newly created object. No new
object is created in this case.

=item $md5->reset

This is just an alias for $md5->new.

=item $md5->clone

This a copy of the $md5 object. It is useful when you do not want to
destroy the digests state, but need an intermediate value of the
digest, e.g. when calculating digests iteratively on a continuous data
stream. Example:

```
  my $md5 = Digest::MD5->new;
  while (<>) {
$md5->add($_);
print "Line $.: ", $md5->clone->hexdigest, "\n";
```

```
  }
```

=item $md5->add($data,...)

The $data provided as argument are appended to the message we
calculate the digest for. The return value is the $md5 object itself.

All these lines will have the same effect on the state of the $md5
object:

```
  $md5->add("a"); $md5->add("b"); $md5->add("c");
  $md5->add("a")->add("b")->add("c");
  $md5->add("a", "b", "c");
  $md5->add("abc");
```

=item $md5->addfile($io_handle)

The $io_handle will be read until EOF and its content appended to the
message we calculate
 the digest for. The return value is the $md5
object itself.

The addfile() method will croak() if it fails reading data for some
reason. If it croaks it is unpredictable what the state of the $md5
object will be in. The addfile() method might have been able to read
the file partially before it failed. It is probably wise to discard
or reset the $md5 object if this occurs.

In most cases you want to make sure that the $io_handle is in
C<binmode> before you pass it as argument to the addfile() method.

=item $md5->add_bits($data, $nbits)

=item $md5->add_bits($bitstring)

Since the MD5 algorithm is byte oriented you might only add bits as
multiples of 8, so you probably want to just use add() instead. The
add_bits() method is provided for compatibility with other digest
implementations. See L<Digest> for description of the arguments
that add_bits() take.

=item $md5->digest

Return the binary digest for the message. The returned string will be
16 bytes long.

Note that the C<digest>

operation is effectively a destructive,
read-once operation. Once it has been performed, the C<Digest::MD5>
object is automatically C<reset> and can be used to calculate another
digest value. Call $md5->clone->digest if you want to calculate the
digest without resetting the digest state.

=item $md5->hexdigest

Same as $md5->digest, but will return the digest in hexadecimal
form. The length of the returned string will be 32 and it will only
contain characters from this set: '0'..'9' and 'a'..'f'.

=item $md5->b64digest

Same as $md5->digest, but will return the digest as a base64 encoded
string. The length of the returned string will be 22 and it will only
contain characters from this set: 'A'..'Z', 'a'..'z', '0'..'9', '+'
and '/'.

The base64 encoded string returned is not padded to be a multiple of 4
bytes long. If you want interoperability with other base64 encoded
md5 digests you might want to append the string "==" to the result.

=item @ctx = $md5->context

=item $md5->context(@ctx)

Saves
 or restores the internal state. When called with no arguments,
returns a 3-element list: number of blocks processed, a 16-byte
internal state buffer, then up to 63 bytes of unprocessed data. When
passed those same arguments, restores the state. This is only useful
for specialised operations.

=back

=head1 EXAMPLES

The simplest way to use this library is to import the md5_hex()
function (or one of its cousins):

```
  use Digest::MD5 qw(md5_hex);
  print "Digest is ", md5_hex("foobarbaz"), "\n";
```

The above example would print out the message:

```
  Digest is 6df23dc03f9b54cc38a0fc1483df6e21
```

The same checksum can also be calculated in OO style:

```
  use Digest::MD5;

  $md5 = Digest::MD5->new;
  $md5->add('foo', 'bar');
  $md5->add('baz');
  $digest = $md5->hexdigest;

  print "Digest is $digest\n";
```

With OO style, you can break the message arbitrarily. This means that we
are no longer limited to have space for the whole message in memory,
 i.e.
we can handle messages of any size.

This is useful when calculating checksum for files:

```
  use Digest::MD5;

  my $filename = shift || "/etc/passwd";
  open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
  binmode($fh);

  $md5 = Digest::MD5->new;
  while (<$fh>) {
     $md5->add($_);
  }
  close($fh);
  print $md5->b64digest, " $filename\n";
```

Or we can use the addfile method for more efficient reading of
the file:

```
  use Digest::MD5;

  my $filename = shift || "/etc/passwd";
  open (my $fh, '<', $filename) or die "Can't open '$filename': $!";
  binmode ($fh);

  print Digest::MD5->new->addfile($fh)->hexdigest, " $filename\n";
```

Since the MD5 algorithm is only defined for strings of bytes, it can not be
used on strings that contains chars with ordinal number above 255 (Unicode
strings). The MD5 functions and methods will croak if you try to feed them
such input data:

```
  use Digest::MD5 qw(md5_hex);

  my $str = "abc\x{300}";

 print md5_hex($str), "\n";  # croaks
  # Wide character in subroutine entry
```

What you can do is calculate the MD5 checksum of the UTF-8
representation of such strings. This is achieved by filtering the
string through encode_utf8() function:

```
  use Digest::MD5 qw(md5_hex);
  use Encode qw(encode_utf8);

  my $str = "abc\x{300}";
  print md5_hex(encode_utf8($str)), "\n";
  # 8c2d46911f3f5a326455f0ed7a8ed3b3
```

=head1 SEE ALSO

L<Digest>,
L<Digest::MD2>,
L<Digest::SHA>,
L<Digest::HMAC>

L<md5sum(1)>

RFC 1321

http://en.wikipedia.org/wiki/MD5

The paper "How to Break MD5 and Other Hash Functions" by Xiaoyun Wang
and Hongbo Yu.

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The original C<MD5> interface was written by Neil Winton
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The C<Digest::MD5> module is written by Gisle Aas <gisle@ActiveState.com>.

=cut

Found in path(s):
* /perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/MD5.pm
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No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interface to the MD-5 algorithm'
author:
 - 'Gisle Aas <gisle@activestate.com>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1

generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Digest-MD5
no_index:
 directory:
  - t
  - inc
requires:
 Digest::base: '1.00'
 XSLoader: '0'
 perl: '5.006'
resources:
 repository: https://github.com/gisle/digest-md5
version: '2.55'

Found in path(s):
* /perl-Digest-MD5-2.55-396.el8.src.rpm-cosi-expand-archive-qfwrDrJx/Digest-MD5-2.55.tar.gz-cosi-expand-archive-xOrAnhrN/Digest-MD5-2.55/META.yml

1.63 perl-podlators 4.11-1.el8

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1.64 perl-http-tiny 0.074-1.el8

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=encoding utf8

=head1 NAME

parent - Establish an ISA relationship with base classes at compile time

=head1 SYNOPSIS

```
  package Baz;
  use parent qw(Foo Bar);
```

=head1 DESCRIPTION

Allows you to both load one or more modules, while setting up inheritance from
those modules at the same time. Mostly similar in effect to

```
  package Baz;
  BEGIN {
     require Foo;
     require Bar;
     push @ISA, qw(Foo Bar);
  }
```

By default, every base class needs to live in a file of its own.
If you want to have a subclass and its parent class in the same file, you
can tell C<parent> not to load any modules by using the C<-norequire> switch:

```
 package Foo;
 sub exclaim { "I CAN HAS PERL" }

 package DoesNotLoadFooBar;
 use parent -norequire, 'Foo', 'Bar';
```

```
 # will not go looking for Foo.pm or Bar.pm
```

This is equivalent to the following code:

```
 package Foo;
 sub exclaim { "I CAN HAS PERL" }

 package DoesNotLoadFooBar;
  push @DoesNotLoadFooBar::ISA, 'Foo', 'Bar';
```

This is also helpful for the case where a package lives within
a differently named file:

```
 package MyHash;
 use Tie::Hash;
 use parent -norequire, 'Tie::StdHash';
```

This is equivalent to the following code:

```
 package MyHash;
 require Tie::Hash;
 push @ISA, 'Tie::StdHash';
```

If you want to load a subclass from a file that C<require> would
not consider an eligible filename (that is, it does not end in
either C<.pm> or C<.pmc>), use the following code:

```
 package MySecondPlugin;
 require './plugins/custom.plugin'; # contains Plugin::Custom
 use parent -norequire, 'Plugin::Custom';
```

=head1 HISTORY

This module was forked from L<base> to remove the cruft
that had accumulated in it.

=head1 CAVEATS

=head1 SEE ALSO

L<base>

=head1 AUTHORS AND CONTRIBUTORS

Rafaël Garcia-Suarez, Bart Lateur, Max Maischein, Anno Siegel, Michael Schwern

=head1 MAINTAINER

Max Maischein C< corion@cpan.org >

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---
abstract: 'Establish an ISA relationship with base classes at compile time'
author:
 - 'Max Maischein <corion@cpan.org>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.34, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: parent
no_index:
 directory:
   - t
   - inc
requires:
 Test::More: '0.4'
 perl: '5.006'
resources:
 repository: https://github.com/Corion/parent
version: '0.237'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

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* /perl-parent-0.237-1.el8.src.rpm-cosi-expand-archive-Q995NCX6/parent-0.237.tar.gz-cosi-expand-archive-VnAWPUbE/parent-0.237/META.yml

1.66 perl-encode 2.97-3.el8

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1.67 perl-threads-shared 1.58-2.el8

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=head1 NAME

threads::shared - Perl extension for sharing data structures between threads

=head1 VERSION

This document describes threads::shared version 1.58

=head1 SYNOPSIS

```
use threads;
use threads::shared;

my $var :shared;
my %hsh :shared;
my @ary :shared;
```

```
my ($scalar, @array, %hash);
share($scalar);
share(@array);
share(%hash);

$var = $scalar_value;
$var = $shared_ref_value;
$var = shared_clone($non_shared_ref_value);
$var = shared_clone({'foo' => [qw/foo bar baz/]});

$hsh{'foo'} = $scalar_value;
$hsh{'bar'} = $shared_ref_value;
$hsh{'baz'} = shared_clone($non_shared_ref_value);
$hsh{'quz'} = shared_clone([1..3]);

$ary[0] = $scalar_value;
$ary[1] = $shared_ref_value;
$ary[2] = shared_clone($non_shared_ref_value);
$ary[3] = shared_clone([ {}, [] ]);

{ lock(%hash); ...  }

cond_wait($scalar);
cond_timedwait($scalar, time() + 30);
cond_broadcast(@array);
cond_signal(%hash);

 my $lockvar :shared;
# condition var != lock var
cond_wait($var, $lockvar);
cond_timedwait($var, time()+30, $lockvar);
```

=head1 DESCRIPTION

By default, variables are private to each thread, and each newly created thread gets a private copy of each existing variable. This module allows you to share variables across different threads (and pseudo-forks on Win32). It is used together with the L<threads> module.

This module supports the sharing of the following data types only: scalars and scalar refs, arrays and array refs, and hashes and hash refs.

=head1 EXPORT

The following functions are exported by this module: C<share>, C<shared_clone>, C<is_shared>, C<cond_wait>, C<cond_timedwait>, C<cond_signal> and C<cond_broadcast>

Note that if this module is imported when L<threads> has not yet been loaded,
then these functions all become no-ops. This makes it possible to write
modules that will work in both threaded and non-threaded environments.

=head1 FUNCTIONS

=over
 4

=item share VARIABLE

C<share> takes a variable and marks it as shared:

 my ($scalar, @array, %hash);
 share($scalar);
 share(@array);
 share(%hash);

C<share> will return the shared rvalue, but always as a reference.

Variables can also be marked as shared at compile time by using the
C<:shared> attribute:

 my ($var, %hash, @array) :shared;

Shared variables can only store scalars, refs of shared variables, or
refs of shared data (discussed in next section):

 my ($var, %hash, @array) :shared;
 my $bork;

 # Storing scalars
 $var = 1;
 $hash{'foo'} = 'bar';
 $array[0] = 1.5;

 # Storing shared refs
 $var = \%hash;
 $hash{'ary'} = \@array;
 $array[1] = \$var;

 # The following are errors:
 # $var = \$bork;   # ref of non-shared variable
 # $hash{'bork'} = [];   # non-shared array ref
 #   push(@array, { 'x' => 1 });   # non-shared hash ref

=item shared_clone REF

C<shared_clone> takes a reference, and returns a shared
 version of its
argument, performing a deep copy on any non-shared elements. Any shared
elements in the argument are used as is (i.e., they are not cloned).

 my $cpy = shared_clone({'foo' => [qw/foo bar baz/]});

Object status (i.e., the class an object is blessed into) is also cloned.

 my $obj = {'foo' => [qw/foo bar baz/]};
 bless($obj, 'Foo');
 my $cpy = shared_clone($obj);
 print(ref($cpy), "\n");   # Outputs 'Foo'

For cloning empty array or hash refs, the following may also be used:

 $var = &share([]);   # Same as $var = shared_clone([]);
 $var = &share({});   # Same as $var = shared_clone({});

Not all Perl data types can be cloned (e.g., globs, code refs). By default,
C<shared_clone> will L<croak|Carp> if it encounters such items. To change
this behaviour to a warning, then set the following:

 $threads::shared::clone_warn = 1;

In this case, C<undef> will be substituted for the item to be cloned. If
set to zero:

 $threads::shared::clone_warn = 0;

then
 the C<undef> substitution will be performed silently.

=item is_shared VARIABLE

C<is_shared> checks if the specified variable is shared or not. If shared,
returns the variable's internal ID (similar to
C<refaddr()> (see L<Scalar::Util>). Otherwise, returns C<undef>.

 if (is_shared($var)) {
     print("\$var is shared\n");
 } else {
     print("\$var is not shared\n");
 }

When used on an element of an array or hash, C<is_shared> checks if the
specified element belongs to a shared array or hash. (It does not check

the contents of that element.)

```
 my %hash :shared;
 if (is_shared(%hash)) {
    print("\%hash is shared\n");
 }

 $hash{'elem'} = 1;
 if (is_shared($hash{'elem'})) {
    print("\$hash{'elem'} is in a shared hash\n");
 }
```

=item lock VARIABLE

C<lock> places a B<advisory> lock on a variable until the lock goes out of scope. If the variable is locked by another thread, the C<lock> call will block until it's available. Multiple calls to C<lock> by the same thread from
within dynamically nested scopes are safe -- the variable will remain locked until the outermost lock on the variable goes out of scope.

C<lock> follows references exactly I<one> level:

```
 my %hash :shared;
 my $ref = \%hash;
 lock($ref);          # This is equivalent to lock(%hash)
```

Note that you cannot explicitly unlock a variable; you can only wait for the lock to go out of scope. This is most easily accomplished by locking the variable inside a block.

```
 my $var :shared;
 {
    lock($var);
    # $var is locked from here to the end of the block
    ...
 }
 # $var is now unlocked
```

As locks are advisory, they do not prevent data access or modification by another thread that does not itself attempt to obtain a lock on the variable.

You cannot lock the individual elements of a container variable:

```
 my %hash :shared;
 $hash{'foo'} = 'bar';
 #lock($hash{'foo'});        # Error
 lock(%hash);               # Works
```

If you need more fine-grained control
over shared variable access, see
L<Thread::Semaphore>.

=item cond_wait VARIABLE

=item cond_wait CONDVAR, LOCKVAR

The C<cond_wait> function takes a B<locked> variable as a parameter, unlocks the variable, and blocks until another thread does a C<cond_signal> or C<cond_broadcast> for that same locked variable. The variable that C<cond_wait> blocked on is re-locked after the C<cond_wait> is satisfied. If there are multiple threads C<cond_wait>ing on the same variable, all but one will re-block waiting to reacquire the
lock on the variable. (So if you're only
using C<cond_wait> for synchronization, give up the lock as soon as possible). The two actions of unlocking the variable and entering the blocked wait state are atomic, the two actions of exiting from the blocked wait state and re-locking the variable are not.

In its second form, C<cond_wait> takes a shared, B<unlocked> variable followed by a shared, B<locked> variable. The second variable is unlocked and thread execution suspended
until another thread signals the first variable.

It is important to note that the variable can be notified even if no thread C<cond_signal> or C<cond_broadcast> on the variable. It is therefore important to check the value of the variable and go back to waiting if the requirement is not fulfilled. For example, to pause until a shared counter drops to zero:

```
{ lock($counter); cond_wait($counter) until $counter == 0; }
```

=item cond_timedwait VARIABLE, ABS_TIMEOUT

=item cond_timedwait CONDVAR, ABS_TIMEOUT, LOCKVAR

In its two-argument form, C<cond_timedwait> takes a B<locked> variable and an absolute timeout in I<epoch> seconds (see L<time() in perlfunc|perlfunc/time> for more) as parameters, unlocks the variable, and blocks until the timeout is reached or another thread signals the variable. A false value is returned if the timeout is reached, and a true value otherwise. In either case, the variable is re-locked upon return.

Like C<cond_wait>, this function may take a shared,
B<locked> variable as an
additional parameter; in this case the first parameter is an B<unlocked>

condition variable protected by a distinct lock variable.

Again like C<cond_wait>, waking up and reacquiring the lock are not atomic,
and you should always check your desired condition after this function
returns. Since the timeout is an absolute value, however, it does not have to
be recalculated with each pass:

```
 lock($var);
 my $abs = time() + 15;
 until ($ok = desired_condition($var)) {
    last if !cond_timedwait($var, $abs);
 }
 # we got it if $ok, otherwise we timed out!
```

=item cond_signal VARIABLE

The C<cond_signal> function takes a B<locked> variable as a parameter and
unblocks one thread that's C<cond_wait>ing
on that variable. If more than one
thread is blocked in a C<cond_wait> on that variable, only one (and which one
is indeterminate) will be unblocked.

If there are no threads blocked in a C<cond_wait> on the variable, the signal
is discarded. By always locking
 before
signaling, you can (with care), avoid
signaling before another thread has entered cond_wait().

C<cond_signal> will normally generate a warning if you attempt to use it on an
unlocked variable. On the rare occasions
where doing this may be sensible, you
can suppress the warning with:

```
 { no warnings 'threads'; cond_signal($foo); }
```

=item cond_broadcast VARIABLE

The C<cond_broadcast> function works similarly to C<cond_signal>.
C<cond_broadcast>, though, will unblock B<all> the threads that are blocked in
a C<cond_wait> on the locked variable, rather than only one.

=back

=head1 OBJECTS

L<threads::shared> exports a version of L<bless()|perlfunc/"bless REF"> that
works on shared objects such that I<blessings> propagate across threads.

```
# Create a shared 'Foo' object
my $foo :shared = shared_clone({});
bless($foo, 'Foo');

# Create a shared 'Bar' object
my $bar :shared = shared_clone({});
bless($bar, 'Bar');

# Put 'bar' inside 'foo'
$foo->{'bar'} = $bar;

#
Rebless the objects via a thread
threads->create(sub {
    # Rebless the outer object
    bless($foo, 'Yin');

    # Cannot directly rebless the inner object
    #bless($foo->{'bar'}, 'Yang');

    # Retrieve and rebless the inner object
    my $obj = $foo->{'bar'};
    bless($obj, 'Yang');
    $foo->{'bar'} = $obj;

})->join();

print(ref($foo),          "\n");    # Prints 'Yin'
print(ref($foo->{'bar'}), "\n");    # Prints 'Yang'
print(ref($bar),          "\n");    # Also prints 'Yang'
```

=head1 NOTES

L<threads::shared> is designed to disable itself silently if threads are not available. This allows you to write modules and packages that can be used in both threaded and non-threaded applications.

If you want access to threads, you must C<use threads> before you C<use threads::shared>. L<threads> will emit a warning if you use it after L<threads::shared>.

=head1 WARNINGS

=over 4

=item cond_broadcast() called on unlocked variable

=item cond_signal() called

on unlocked variable

See L</"cond_signal VARIABLE">, above.

=back

=head1 BUGS AND LIMITATIONS

When C<share> is used on arrays, hashes, array refs or hash refs, any data they contain will be lost.

```
my @arr = qw(foo bar baz);
share(@arr);
# @arr is now empty (i.e., == ());

# Create a 'foo' object
my $foo = { 'data' => 99 };
bless($foo, 'foo');

# Share the object
share($foo);        # Contents are now wiped out
print("ERROR: \$foo is empty\n")
    if (! exists($foo->{'data'}));
```

Therefore, populate such variables B<after> declaring them as shared. (Scalar and scalar refs are not affected by this problem.)

Blessing a shared item after it has been nested in another shared item does not propagate the blessing to the shared reference:

```
my $foo = &share({});
my $bar = &share({});
$bar->{foo} = $foo;
bless($foo, 'baz');   # $foo is now of class 'baz',
                      # but $bar->{foo} is unblessed.
```

Therefore, you should bless objects before sharing them.

It is often not wise to share an object unless the class itself has been written to support sharing. For example, a shared object's destructor may get called multiple times, once for each thread's scope exit, or may not get called at all if it is embedded inside another shared object. Another issue is that the contents of hash-based objects will be lost due to the above mentioned limitation. See F<examples/class.pl> (in the CPAN distribution of this module) for how to create a class that supports object sharing.

Destructors may not be called on objects if those objects still exist at
global destruction time. If the destructors must be called, make sure
there are no circular references and that nothing is referencing the
objects before the program ends.

Does not support C<splice> on arrays. Does not support explicitly changing
array lengths via $#array -- use C<push> and C<pop> instead.

Taking references to the elements of shared arrays and hashes does not
autovivify the
 elements, and neither does slicing a shared array/hash over
non-existent indices/keys autovivify the elements.

C<share()> allows you to C<< share($hashref->{key}) >> and
C<< share($arrayref->[idx]) >> without giving any error message. But the
C<< $hashref->{key} >> or C<< $arrayref->[idx] >> is B<not> shared, causing
the error "lock can only be used on shared values" to occur when you attempt
to C<< lock($hashref->{key}) >> or C<< lock($arrayref->[idx]) >> in another
thread.

Using C<refaddr()> is unreliable for testing
whether or not two shared references are equivalent (e.g., when testing for
circular references). Use L<is_shared()|/"is_shared VARIABLE">, instead:

```
  use threads;
  use threads::shared;
  use Scalar::Util qw(refaddr);

  # If ref is shared, use threads::shared's internal ID.
  # Otherwise, use refaddr().
  my $addr1 = is_shared($ref1) || refaddr($ref1);
  my $addr2 = is_shared($ref2) || refaddr($ref2);

  if ($addr1 == $addr2) {
     # The refs
are equivalent
  }
```

L<each()|perlfunc/"each HASH"> does not work properly on shared references
embedded in shared structures. For example:

```
  my %foo :shared;
  $foo{'bar'} = shared_clone({'a'=>'x', 'b'=>'y', 'c'=>'z'});

  while (my ($key, $val) = each(%{$foo{'bar'}})) {
     ...
  }
```

Either of the following will work instead:

```
  my $ref = $foo{'bar'};
  while (my ($key, $val) = each(%{$ref})) {
     ...
  }

  foreach my $key (keys(%{$foo{'bar'}})) {
     my $val = $foo{'bar'}{$key};
     ...
  }
```

This module supports dual-valued variables created using C<dualvar()> from
L<Scalar::Util>. However, while C<$!> acts
like a dualvar, it is implemented as a tied SV. To propagate its value, use
the follow construct, if needed:

```
  my $errno :shared = dualvar($!,$!);
```

View existing bug reports at, and submit any new bugs, problems, patches, etc.
to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads-shared>

=head1 SEE ALSO

threads::shared on MetaCPAN:
L<https://metacpan.org/release/threads-shared>

Code
 repository for CPAN distribution:
L<https://github.com/Dual-Life/threads-shared>

L<threads>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and
L<http://www.perl.com/pub/a/2002/09/04/threads.html>

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

Documentation borrowed from the old Thread.pm.

CPAN version produced by Jerry D. Hedden E<lt>jdhedden AT cpan DOT orgE<gt>.

=head1 LICENSE

threads::shared is released under the same license as Perl.

=cut

Found in path(s):
* /perl-threads-shared-1.58-2.el8.src.rpm-cosi-expand-archive-r04CR9lQ/threads-shared-1.58.tar.gz-cosi-expand-archive-XH2RZBES/threads-shared-1.58/lib/threads/shared.pm
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/*
----

  ppport.h -- Perl/Pollution/Portability Version 3.19

  Automatically created by Devel::PPPort running under perl 5.010000.

  Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
  includes in parts/inc/ instead.

  Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19

=head1 SYNOPSIS

 perl ppport.h [options] [source files]

 Searches current directory for files if no [source files] are given

 --help   show short help

 --version   show version

 --patch=file   write one patch file with changes
 --copy=suffix   write changed copies with suffix
 --diff=program   use diff program and options

```
--compat-version=version
   provide compatibility with Perl version
--cplusplus               accept C++ comments

--quiet                  don't output anything except fatal errors
--nodiag                  don't show diagnostics
--nohints                 don't show hints
--nochanges                don't suggest changes
--nofilter               don't filter input files

--strip                   strip all script and doc functionality from
                         ppport.h

--list-provided           list provided API
--list-unsupported        list unsupported API
--api-info=name           show Perl API portability information
```

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.10.0.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given,
 a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with the given suffix that contains the suggested changes. This does not require any external programs. Note that this does not automagially add a dot between the original filename and the suffix. If you want the dot, you have to include it in the option argument.

If neither C<--patch> or C<--copy> are given, the default is to simply print the diffs for each file. This requires either C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default is to use C<Text::Diff>, when installed, and output unified context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given Perl version. The default is to check for compatibility with Perl version 5.003.
 You can use this option to reduce the output of F<ppport.h> if you intend to be backward compatible only down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and replace them with C style comments for portability reasons. Using this option instructs F<ppport.h> to leave C++ comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking

like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This
 reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across
 differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

  perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or
 variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

  #define NEED_function
  #define NEED_variable

For a global function or variable (used in multiple source files),
use:

  #define NEED_function_GLOBAL
  #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

Function / Variable	Static Request	Global Request
PL_parser	NEED_PL_parser	NEED_PL_parser_GLOBAL
PL_signals	NEED_PL_signals	NEED_PL_signals_GLOBAL
eval_pv()	NEED_eval_pv	NEED_eval_pv_GLOBAL
grok_bin()	NEED_grok_bin	NEED_grok_bin_GLOBAL
grok_hex()	NEED_grok_hex	NEED_grok_hex_GLOBAL
grok_number()	NEED_grok_number	NEED_grok_number_GLOBAL

```
  grok_numeric_radix()     NEED_grok_numeric_radix     NEED_grok_numeric_radix_GLOBAL
  grok_oct()               NEED_grok_oct               NEED_grok_oct_GLOBAL
  load_module()            NEED_load_module            NEED_load_module_GLOBAL
  my_snprintf()            NEED_my_snprintf            NEED_my_snprintf_GLOBAL
  my_sprintf()             NEED_my_sprintf             NEED_my_sprintf_GLOBAL
  my_strlcat()             NEED_my_strlcat             NEED_my_strlcat_GLOBAL
  my_strlcpy()             NEED_my_strlcpy             NEED_my_strlcpy_GLOBAL
  newCONSTSUB()            NEED_newCONSTSUB            NEED_newCONSTSUB_GLOBAL
  newRV_noinc()            NEED_newRV_noinc            NEED_newRV_noinc_GLOBAL
  newSV_type()             NEED_newSV_type             NEED_newSV_type_GLOBAL
  newSVpvn_flags()         NEED_newSVpvn_flags         NEED_newSVpvn_flags_GLOBAL
  newSVpvn_share()         NEED_newSVpvn_share         NEED_newSVpvn_share_GLOBAL
  pv_display()             NEED_pv_display             NEED_pv_display_GLOBAL
  pv_escape()              NEED_pv_escape              NEED_pv_escape_GLOBAL
  pv_pretty()              NEED_pv_pretty              NEED_pv_pretty_GLOBAL
  sv_2pv_flags()           NEED_sv_2pv_flags           NEED_sv_2pv_flags_GLOBAL
  sv_2pvbyte()             NEED_sv_2pvbyte             NEED_sv_2pvbyte_GLOBAL
  sv_catpvf_mg()           NEED_sv_catpvf_mg           NEED_sv_catpvf_mg_GLOBAL
  sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
  sv_pvn_force_flags()     NEED_sv_pvn_force_flags     NEED_sv_pvn_force_flags_GLOBAL
  sv_setpvf_mg()           NEED_sv_setpvf_mg
NEED_sv_setpvf_mg_GLOBAL
  sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
  vload_module()           NEED_vload_module           NEED_vload_module_GLOBAL
  vnewSVpvf()              NEED_vnewSVpvf              NEED_vnewSVpvf_GLOBAL
  warner()                 NEED_warner                 NEED_warner_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

```
  #define DPPP_NAMESPACE MyOwnNamespace_
  #include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be

run as a Perl script to check your
source code. Simply say:

```
  perl ppport.h
```

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

```
  perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions
for changes, use:

```
  perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using
the C<--diff> option:

```
  perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
  perl ppport.h --copy=.new
```

To display portability information for the C<newSVpvn>
function,
use:

```
  perl ppport.h --api-info=newSVpvn
```

Since the argument to C<--api-info> can be a regular expression,
you can use

```
  perl ppport.h --api-info=/_nomg$/
```

to display portability information for all C<_nomg> functions or

```
  perl ppport.h --api-info=/./
```

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item
5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2009, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

```
Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19;

my %opt = (
 quiet     => 0,
 diag      => 1,
 hints     => 1,
 changes   => 1,
 cplusplus => 0,
 filter    => 1,
 strip     => 0,
 version   => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/'.'*';
my
 $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt, qw(
   help quiet diag! filter! hints! changes! cplusplus strip version
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
};
```

```
if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
 print "This is $0 $VERSION.\n";
 exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
 }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
 $opt{'compat-version'} = 5;
}

my
 %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
            ? ( $1 => {
                ($2               ? ( base     => $2 ) : ()),
                ($3               ? ( todo     => $3 ) : ()),
                (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
              } )
            : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
CLASS|||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
```

CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy|||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set|5.011000||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvSVn|5.009003||p
GvSV|||
Gv_AMupdate|||
HEf_SVKEY||5.004000|
HeHASH||5.004000|
HeKEY||5.004000|
HeKLEN||5.004000|
HePV||5.004000|
HeSVKEY_force||5.004000|
HeSVKEY_set||5.004000|
HeSVKEY||5.004000|
HeUTF8||5.011000|
HeVAL||5.004000|
HvNAMELEN_get|5.009003||p
HvNAME_get|5.009003||p
HvNAME|||
INT2PTR|5.006000||p

IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LVRET|||
MARK|||
MULTICALL||5.011000|
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002||p
Move|||
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||
ORIGMARK|||
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_DUP|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||

PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SVl|||
PAD_SV|||
PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.011000||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.004000||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.011000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.011000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p

PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3||5.006000|
PERL_SYS_INIT|||
PERL_SYS_TERM||5.011000|
PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_ULONG_MAX|5.004000||p
PERL_ULONG_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p

PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.011000||p
PL_bufptr|5.011000||p
PL_compiling|5.004050||p
PL_copline|5.011000||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.011000||p
PL_expect|5.011000||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.011000||p
PL_in_my|5.011000||p
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.011000||p
PL_lex_stuff|5.011000||p
PL_linestr|5.011000||p
PL_modglobal||5.005000|n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_parser|5.009005||p
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfp_filters|5.004050||p
PL_rsfp|5.004050||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p

PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.011000||p
POP_MULTICALL||5.011000|
POPi|||n
POPl|||n
POPn|||n
POPpbytex||5.007001|n
POPpx||5.005030|n
POPp|||n
POPs|||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2nat|5.009003||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK|||
PUSH_MULTICALL||5.011000|
PUSHi|||
PUSHmortal|5.009002||p
PUSHn|||
PUSHp|||
PUSHs|||
PUSHu|5.004000||p
PUTBACK|||
PerlIO_clearerr||5.007003|
PerlIO_close||5.007003|
PerlIO_context_layers||5.009004|
PerlIO_eof||5.007003|
PerlIO_error||5.007003|
PerlIO_fileno||5.007003|
PerlIO_fill||5.007003|
PerlIO_flush||5.007003|
PerlIO_get_base||5.007003|
PerlIO_get_bufsiz||5.007003|
PerlIO_get_cnt||5.007003|
PerlIO_get_ptr||5.007003|
PerlIO_read||5.007003|
PerlIO_seek||5.007003|
PerlIO_set_cnt||5.007003|
PerlIO_set_ptrcnt||5.007003|
PerlIO_setlinebuf||5.007003|
PerlIO_stderr||5.007003|
PerlIO_stdin||5.007003|

PerlIO_stdout||5.007003|
PerlIO_tell||5.007003|
PerlIO_unread||5.007003|
PerlIO_write||5.007003|
Perl_signbit||5.009005|n
PoisonFree|5.009004||p
PoisonNew|5.009004||p
PoisonWith|5.009004||p
Poison|5.008000||p
RETVAL|||n
Renewc|||
Renew|||
SAVECLEARSV|||
SAVECOMPPAD|||
SAVEPADSV|||
SAVETMPS|||
SAVE_DEFSV|5.004050||p
SPAGAIN|||
SP|||
START_EXTERN_C|5.005000||p
START_MY_CXT|5.007003||p
STMT_END|||p
STMT_START|||p
STR_WITH_LEN|5.009003||p
ST|||
SV_CONST_RETURN|5.009003||p
SV_COW_DROP_PV|5.008001||p
SV_COW_SHARED_HASH_KEYS|5.009005||p
SV_GMAGIC|5.007002||p
SV_HAS_TRAILING_NUL|5.009004||p
SV_IMMEDIATE_UNREF|5.007001||p
SV_MUTABLE_RETURN|5.009003||p
SV_NOSTEAL|5.009002||p
SV_SMAGIC|5.009003||p
SV_UTF8_NO_ENCODING|5.008001||p
SVfARG|5.009005||p
SVf_UTF8|5.006000||p
SVf|5.006000||p
SVt_IV|||
SVt_NV|||
SVt_PVAV|||
SVt_PVCV|||
SVt_PVHV|||
SVt_PVMG|||
SVt_PV|||
Safefree|||
Slab_Alloc|||
Slab_Free|||

Slab_to_rw|||
StructCopy|||
SvCUR_set|||
SvCUR|||
SvEND|||
SvGAMAGIC||5.006001|
SvGETMAGIC|5.004050||p
SvGROW|||
SvIOK_UV||5.006000|
SvIOK_notUV||5.006000|
SvIOK_off|||
SvIOK_only_UV||5.006000|
SvIOK_only|||
SvIOK_on|||
SvIOKp|||
SvIOK|||
SvIVX|||
SvIV_nomg|5.009001||p
SvIV_set|||
SvIVx|||
SvIV|||
SvIsCOW_shared_hash||5.008003|
SvIsCOW||5.008003|
SvLEN_set|||
SvLEN|||
SvLOCK||5.007003|
SvMAGIC_set|5.009003||p
SvNIOK_off|||
SvNIOKp|||
SvNIOK|||
SvNOK_off|||
SvNOK_only|||
SvNOK_on|||
SvNOKp|||
SvNOK|||
SvNVX|||
SvNV_set|||
SvNVx|||
SvNV|||
SvOK|||
SvOOK_offset||5.011000|
SvOOK|||
SvPOK_off|||
SvPOK_only_UTF8||5.006000|
SvPOK_only|||
SvPOK_on|||
SvPOKp|||
SvPOK|||

SvPVX_const|5.009003||p
SvPVX_mutable|5.009003||p
SvPVX|||
SvPV_const|5.009003||p
SvPV_flags_const_nolen|5.009003||p
SvPV_flags_const|5.009003||p
SvPV_flags_mutable|5.009003||p
SvPV_flags|5.007002||p
SvPV_force_flags_mutable|5.009003||p
SvPV_force_flags_nolen|5.009003||p
SvPV_force_flags|5.007002||p
SvPV_force_mutable|5.009003||p
SvPV_force_nolen|5.009003||p
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yyerror|||

```
yylex|||
yyparse|||
yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{todo};
   print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
 my $code = shift;
 $code =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | "[^"\\]*(?:\\.[^"\\]*)*"
 | '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
 grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>) {
 if ($hint) {
   my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
   if (m{^\s*\*\s(.*?)\s*$}) {
     for (@{$hint->[1]}) {
       $h->{$_} ||= '';  # suppress warning with older
 perls
       $h->{$_} .= "$1\n";
     }
   }
   else { undef $hint }
 }

 $hint = [$1, [split /,?\s+/, $2]]
     if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

 if ($define) {
```

```
  if ($define->[1] =~ /\\$/) {
    $define->[1] .= $_;
  }
  else {
    if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
      my @n = find_api($define->[1]);
      push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
  }
}

$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

if ($function) {
  if (/^}/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}

$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
 $replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
  my @deps = map { s/\s+//g; $_ } split /,/, $3;
  my $d;
  for $d (map { s/\s+//g; $_ } split /,/, $1) {
    push @{$depends{$d}}, @deps;
  }
}

 $need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

for (values %depends) {
 my %s;
 $_ = [sort grep !$s{$_}++, @$_];
```

```
}

if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
 for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $f =~ /$match/;
  print "\n=== $f ===\n\n";
  my $info = 0;
  if ($API{$f}{base} || $API{$f}{todo}) {
   my $base = format_version($API{$f}{base} || $API{$f}{todo});
   print "Supported at least starting from perl-$base.\n";
    $info++;
  }
  if ($API{$f}{provided}) {
   my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
   print "Support by $ppport provided back to perl-$todo.\n";
   print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
   print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
   print "\n$hints{$f}" if exists $hints{$f};
   print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
   $info++;
  }
  print "No portability information available.\n" unless $info;
  $count++;
 }
 $count or print "Found no API matching '$opt{'api-info'}'.";
 print "\n";
 exit 0;
}

if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend'   if exists $depends{$f};
  push @flags, 'hint'     if exists $hints{$f};
  push @flags, 'warning'
 if exists $warnings{$f};
  my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
  print "$f$flags\n";
 }
 exit 0;
}
```

```
my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
 my %seen;
 for (@ARGV) {
  if (-e) {
   if (-f) {
    push @files, $_ unless $seen{$_}++;
   }
   else { warn "'$_' is not a file.\n" }
  }
  else {
   my @new = grep { -f } glob $_
     or warn "'$_' does not exist.\n";
   push @files, grep { !$seen{$_}++ } @new;
  }
 }
}
else {
 eval {
  require File::Find;
  File::Find::find(sub {
   $File::Find::name =~ /($srcext)$/i
     and push @files, $File::Find::name;
  }, '.');
 };
 if ($@) {
  @files = map { glob "*$_" } @srcext;
 }
}

if (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
  my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
   push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
  warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
 }
 @files = @in;
}

die "No input files given!\n" unless @files;
```

```
my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
 unless (open IN, "<$filename") {
  warn "Unable to read from $filename: $!\n";
  next;
 }

 info("Scanning $filename ...");

 my $c = do { local $/; <IN> };
 close IN;

 my %file = (orig => $c, changes => 0);

 # Temporarily remove C/XS comments and strings from the code
 my @ccom;

 $c =~ s{
  ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
  | ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
  | "[^"\\]*(?:\\.[^"\\]*)*"
  | '[^'\\]*(?:\\.[^'\\]*)*'
  | / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
 }{ defined $2 and push @ccom, $2;
   defined
 $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

 $file{ccom} = \@ccom;
 $file{code} = $c;
 $file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

 my $func;

 for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
```

```
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
          $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}{$func}}, $filename;
  }
}

$files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
 if (@{$global{needs}{$need}} > 1) {
  my @targets = @{$global{needs}{$need}};
  my @t = grep $files{$_}{needed_global}{$need}, @targets;
  @targets = @t if @t;
  @t = grep /\.xs$/i, @targets;
  @targets = @t if @t;
  my $target = shift @targets;
  $files{$target}{needs}{$need}
```

```
= 'global';
  for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
  }
 }
}

for $filename (@files) {
 exists $files{$filename} or next;

 info("=== Analyzing $filename ===");

 my %file = %{$files{$filename}};
 my $func;
 my $c = $file{code};
 my $warnings = 0;

 for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
                    { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
                      {$func$1(}g);
  }
}

 for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses
$func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
 }

 for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
```

```
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
          format_version($API{$func}{todo}), ", even with '$ppport'\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already
needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = '';
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};
```

```
if ($file{needs_inc_ppport}) {
  my $pp = '';

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
     next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = '';
    $file{changes}++;
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
                   || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                   || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                   || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport})
{
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
```

```
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing
copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
```

```
          goto fallback;
        }
       }
       mydiff(\*PATCH, $filename, $c);
     }
     else {
fallback:
       info("Suggested changes:");
       mydiff(\*STDOUT, $filename, $c);
     }
   }
   else {
     my $s = $file{changes} == 1 ? '' : 's';
     info("$file{changes} potentially required change$s detected");
   }
 }
 else {
   info("Looks good");
 }
}

close PATCH if $patch_opened;

exit 0;


sub try_use { eval
 "use @_;"; return $@ eq '' }

sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
   $diff = run_diff($opt{diff}, $file, $str);
 }

 if (!defined $diff and try_use('Text::Diff')) {
   $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
   $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
```

```
  $diff = run_diff('diff -u', $file, $str);
 }

 if (!defined $diff) {
  $diff = run_diff('diff', $file, $str);
 }

 if (!defined $diff) {
  error("Cannot generate a diff. Please install Text::Diff or use --copy.");
  return;
 }

 print F $diff;
}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dpppptemp';
 my $suf = 'aaa';
 my $diff = '';
 local *F;

 while (-e "$tmp.$suf") { $suf++ }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
  print F $str;
  close F;

  if (open F, "$prog $file $tmp |") {
    while (<F>) {
      s/\Q$tmp\E/$file.patched/;
      $diff
.= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
  }

  unlink $tmp;
 }
 else {
  error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
```

```
}

sub rec_depend
{
 my($func, $seen) = @_;
 return () unless exists $depends{$func};
 $seen = {%{$seen||{}}};
 return () if $seen->{$func}++;
 my %s;
 grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
 my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
   return ($1, $2, $3);
 }
 elsif ($ver !~ /^\d+\.[\d_]+$/) {
   die "cannot parse version '$ver'\n";
 }

 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "cannot parse version '$ver'\n";
   }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
```

```
 $s =
 int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "invalid version '$ver'\n";
   }
   $s /= 10;

   $ver = sprintf "%d.%03d", $r, $v;
   $s > 0 and $ver .= sprintf "_%02d", $s;

   return $ver;
 }

 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
 $opt{quiet} and return;
 print @_, "\n";
}

sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
 $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
 $opt{quiet} and return;
 my $func = shift;
 my $rv = 0;
```

```
 if (exists $warnings{$func} && !$given_warnings{$func}++) {
   my $warn = $warnings{$func};
   $warn =~ s!^!*** !mg;
   print "*** WARNING: $func\n", $warn;
   $rv++;
 }
 if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
   my $hint = $hints{$func};
   $hint =~ s/^/   /mg;
   print "   --- hint for $func ---\n", $hint;
 }
 $rv;
}

sub
 usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}

sub strip
{
 my $self = do { local(@ARGV,$/)=($0); <> };
 my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
 $copy =~ s/^(?=\S+)/    /gms;
 $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
 $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
 eval { require Devel::PPPort };
 \$@ and die "Cannot require Devel::PPPort, please install.\\n";
 if (eval \$Devel::PPPort::VERSION < $VERSION) {
   die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
     . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
     . "Please install a newer version, or --unstrip will not work.\\n";
 }
```

```
 Devel::PPPort::WriteFile(\$0);
 exit 0;
}
print
 <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

 \$^X \$0 --unstrip

END
/ms;
 my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
 $c =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | ( "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*' )
 | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
 $c =~ s!\s+$!!mg;
 $c =~ s!^$LF!!mg;
 $c =~ s!^\s*#\s*!#!mg;
 $c =~ s!^\s+!!mg;

 open OUT, ">$0" or die "cannot strip $0: $!\n";
 print OUT "$pl$c\n";

 exit 0;
}

__DATA__
*/
```

Found in path(s):
* /perl-threads-shared-1.58-2.el8.src.rpm-cosi-expand-archive-r04CR9lQ/threads-shared-1.58.tar.gz-cosi-expand-archive-XH2RZBES/threads-shared-1.58/ppport.h
No license file was found, but licenses were detected in source scan.

```
---
abstract: 'Perl extension for sharing data structures between threads'
author:
 - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
```

dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: threads-shared
no_index:
 directory:
  - t
  - inc
requires:
 Carp: '0'
 Config: '0'
 ExtUtils::testlib: '0'
 Scalar::Util: '0'
 Test::More: '0'
 XSLoader: '0'
 strict: '0'
 threads: '1.73'
 warnings: '0'
version: '1.58'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /perl-threads-shared-1.58-2.el8.src.rpm-cosi-expand-archive-r04CR9lQ/threads-shared-1.58.tar.gz-cosi-expand-archive-XH2RZBES/threads-shared-1.58/META.yml
No license file was found, but licenses were detected in source scan.

```
/*    shared.xs
*
*    Copyright (c) 2001-2002, 2006 Larry Wall
*
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*    License or the Artistic License, as specified in the README file.
*
* "Hand any two wizards a piece of rope and they would instinctively pull in
* opposite directions."
*                         --Sourcery
*
* Contributed by Artur Bergman <sky AT crucially DOT net>
* Pulled in the (an)other direction by Nick Ing-Simmons
*      <nick AT ing-simmons DOT net>
* CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>
*/
```

Found in path(s):
* /perl-threads-shared-1.58-2.el8.src.rpm-cosi-expand-archive-r04CR9lQ/threads-shared-1.58.tar.gz-cosi-expand-

archive-XH2RZBES/threads-shared-1.58/shared.xs

1.68 perl-time-local 1.280-1.el8

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1.69 perl-file-temp 0.230.600-1.el8

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The End

1.70 perl-carp 1.42-396.el8

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=head1 NAME

Carp - alternative warn and die for modules

=head1 SYNOPSIS

```
  use Carp;

  # warn user (from perspective of caller)
  carp "string trimmed to 80 chars";

  # die of errors (from perspective of caller)
  croak "We're outta here!";

  # die of errors with stack backtrace
  confess "not implemented";

  # cluck, longmess and shortmess not exported by default
  use Carp qw(cluck longmess shortmess);
  cluck "This is how we got here!";
  $long_message   = longmess( "message from cluck() or confess()" );
  $short_message  = shortmess( "message from carp() or croak()" );

=head1 DESCRIPTION

The Carp routines are useful in your own modules because
they act like C<die()> or C<warn()>, but with a message which is more
likely to be useful to a user of your module.  In the case of
C<cluck()> and C<confess()>, that context is a summary of every
call in the call-stack; C<longmess()> returns
 the contents of the error
message.

For a shorter message you can use C<carp()> or C<croak()> which report the
error as being from where your module was called.  C<shortmess()> returns the
contents of this error message.  There is no guarantee that that is where the
error was, but it is a good educated guess.

C<Carp> takes care not to clobber the status variables C<$!> and C<$^E>
in the course of assembling its error messages.  This means that a
C<$SIG{__DIE__}> or C<$SIG{__WARN__}> handler can capture the error
information held in those variables, if it is required to augment the
error message, and if the code calling C<Carp> left useful values there.
Of course, C<Carp> can't guarantee the latter.

You can also alter the way the output and logic of C<Carp> works, by
changing some global variables in the C<Carp> namespace. See the
section on C<GLOBAL VARIABLES> below.

Here is a more complete description of how C<carp> and C<croak> work.
What they do is search the call-stack for a function
 call stack where
they have not been told that there shouldn't be an error.  If every
call is marked safe, they give up and give a full stack backtrace
```

instead. In other words they presume that the first likely looking
potential suspect is guilty. Their rules for telling whether
a call shouldn't generate errors work as follows:

=over 4

=item 1.

Any call from a package to itself is safe.

=item 2.

Packages claim that there won't be errors on calls to or from
packages explicitly marked as safe by inclusion in C<@CARP_NOT>, or
(if that array is empty) C<@ISA>. The ability to override what
@ISA says is new in 5.8.

=item 3.

The trust in item 2 is transitive. If A trusts B, and B
trusts C, then A trusts C. So if you do not override C<@ISA>
with C<@CARP_NOT>, then this trust relationship is identical to,
"inherits from".

=item 4.

Any call from an internal Perl module is safe. (Nothing keeps
user modules from marking themselves as internal to Perl, but
this practice is discouraged.)

=item
5.

Any call to Perl's warning system (eg Carp itself) is safe.
(This rule is what keeps it from reporting the error at the
point where you call C<carp> or C<croak>.)

=item 6.

C<$Carp::CarpLevel> can be set to skip a fixed number of additional
call levels. Using this is not recommended because it is very
difficult to get it to behave correctly.

=back

=head2 Forcing a Stack Trace

As a debugging aid, you can force Carp to treat a croak as a confess

and a carp as a cluck across I<all> modules. In other words, force a
detailed stack trace to be given. This can be very helpful when trying
to understand why, or from where, a warning or error is being generated.

This feature is enabled by 'importing' the non-existent symbol
'verbose'. You would typically enable it by saying

  perl -MCarp=verbose script.pl

or by including the string C<-MCarp=verbose> in the PERL5OPT
environment variable.

Alternately, you can set the global variable C<$Carp::Verbose> to true.
See the
 C<GLOBAL VARIABLES> section below.

=head2 Stack Trace formatting

At each stack level, the subroutine's name is displayed along with
its parameters. For simple scalars, this is sufficient. For complex
data types, such as objects and other references, this can simply
display C<'HASH(0x1ab36d8)'>.

Carp gives two ways to control this.

=over 4

=item 1.

For objects, a method, C<CARP_TRACE>, will be called, if it exists. If
this method doesn't exist, or it recurses into C<Carp>, or it otherwise
throws an exception, this is skipped, and Carp moves on to the next option,
otherwise checking stops and the string returned is used. It is recommended
that the object's type is part of the string to make debugging easier.

=item 2.

For any type of reference, C<$Carp::RefArgFormatter> is checked (see below).
This variable is expected to be a code reference, and the current parameter
is passed in. If this function doesn't exist (the variable is undef), or
it recurses into C<Carp>, or it otherwise
 throws an exception, this is
skipped, and Carp moves on to the next option, otherwise checking stops
and the string returned is used.

=item 3.

Otherwise, if neither C<CARP_TRACE> nor C<$Carp::RefArgFormatter> is

available, stringify the value ignoring any overloading.

=back

=head1 GLOBAL VARIABLES

=head2 $Carp::MaxEvalLen

This variable determines how many characters of a string-eval are to
be shown in the output. Use a value of C<0> to show all text.

Defaults to C<0>.

=head2 $Carp::MaxArgLen

This variable determines how many characters of each argument to a
function to print. Use a value of C<0> to show the full length of the
argument.

Defaults to C<64>.

=head2 $Carp::MaxArgNums

This variable determines how many arguments to each function to show.
Use a false value to show all arguments to a function call. To suppress all
arguments, use C<-1> or C<'0 but true'>.

Defaults to C<8>.

=head2 $Carp::Verbose

This variable makes C<carp()> and C<croak()> generate stack backtraces
just
 like C<cluck()> and C<confess()>. This is how C<use Carp 'verbose'>
is implemented internally.

Defaults to C<0>.

=head2 $Carp::RefArgFormatter

This variable sets a general argument formatter to display references.
Plain scalars and objects that implement C<CARP_TRACE> will not go through
this formatter. Calling C<Carp> from within this function is not supported.

```
local $Carp::RefArgFormatter = sub {
  require Data::Dumper;
  Data::Dumper::Dump($_[0]); # not necessarily safe
};
```

=head2 @CARP_NOT

This variable, I<in your package>, says which packages are I<not> to be
considered as the location of an error. The C<carp()> and C<cluck()>
functions will skip over callers when reporting where an error occurred.

NB: This variable must be in the package's symbol table, thus:

```
  # These work
  our @CARP_NOT; # file scope
  use vars qw(@CARP_NOT); # package scope
  @My::Package::CARP_NOT = ... ; # explicit package variable

  # These don't work
  sub xyz { ...
 @CARP_NOT = ... } # w/o declarations above
  my @CARP_NOT; # even at top-level
```

Example of use:

```
  package My::Carping::Package;
  use Carp;
  our @CARP_NOT;
  sub bar     { .... or _error('Wrong input') }
  sub _error  {
     # temporary control of where'ness, __PACKAGE__ is implicit
     local @CARP_NOT = qw(My::Friendly::Caller);
     carp(@_)
  }
```

This would make C<Carp> report the error as coming from a caller not
in C<My::Carping::Package>, nor from C<My::Friendly::Caller>.

Also read the L</DESCRIPTION> section above, about how C<Carp> decides
where the error is reported from.

Use C<@CARP_NOT>, instead of C<$Carp::CarpLevel>.

Overrides C<Carp>'s use of C<@ISA>.

=head2 %Carp::Internal

This says what packages are internal to Perl. C<Carp> will never
report an error as being from a line in a package that is internal to
Perl. For example:

```
  $Carp::Internal{ (__PACKAGE__) }++;
```

```
  # time passes...
  sub foo { ... or confess("whatever") };
```

would give
 a full stack backtrace starting from the first caller
outside of __PACKAGE__. (Unless that package was also internal to
Perl.)

=head2 %Carp::CarpInternal

This says which packages are internal to Perl's warning system. For
generating a full stack backtrace this is the same as being internal
to Perl, the stack backtrace will not start inside packages that are
listed in C<%Carp::CarpInternal>. But it is slightly different for
the summary message generated by C<carp> or C<croak>. There errors
will not be reported on any lines that are calling packages in
C<%Carp::CarpInternal>.

For example C<Carp> itself is listed in C<%Carp::CarpInternal>.
Therefore the full stack backtrace from C<confess> will not start
inside of C<Carp>, and the short message from calling C<croak> is
not placed on the line where C<croak> was called.

=head2 $Carp::CarpLevel

This variable determines how many additional call frames are to be
skipped that would not otherwise be when reporting where an error
occurred
 on a call to one of C<Carp>'s functions. It is fairly easy
to count these call frames on calls that generate a full stack
backtrace. However it is much harder to do this accounting for calls
that generate a short message. Usually people skip too many call
frames. If they are lucky they skip enough that C<Carp> goes all of
the way through the call stack, realizes that something is wrong, and
then generates a full stack backtrace. If they are unlucky then the
error is reported from somewhere misleading very high in the call
stack.

Therefore it is best to avoid C<$Carp::CarpLevel>. Instead use
C<@CARP_NOT>, C<%Carp::Internal> and C<%Carp::CarpInternal>.

Defaults to C<0>.

=head1 BUGS

The Carp routines don't handle exception objects currently.
If called with a first argument that is a reference, they simply
call die() or warn(), as appropriate.

=head1 SEE ALSO

L<Carp::Always>,
L<Carp::Clan>

=head1 AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution.
Since
 then it has been modified by several of the perl 5 porters.
Andrew Main (Zefram) <zefram@fysh.org> divested Carp into an independent
distribution.

=head1 COPYRIGHT

Copyright (C) 1994-2013 Larry Wall

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Found in path(s):
* /perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/lib/Carp.pm
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NAME

Carp - alternative warn and die for modules

DESCRIPTION

The Carp routines are useful in your own modules because they act like
die() or warn(), but with a message which is more likely to be useful
to a user of your module. In the case of cluck, confess, and longmess
that context is a summary of every call in the call-stack. For a shorter
message you can use carp or croak which report the error as being from
where your module was called. There is no guarantee that that is where
the error was, but it is a good educated guess.

You can also alter the way the output and logic of Carp works, by changing
some global variables in the Carp namespace.

INSTALLATION

perl Makefile.PL
make
make test
make install

AUTHOR

The Carp module first appeared in Larry Wall's perl 5.000 distribution.
Since then it has been modified by several of the perl 5 porters.
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Found in path(s):
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No license file was found, but licenses were detected in source scan.

---
abstract: 'alternative warn and die for modules'
author:
- unknown
build_requires:
ExtUtils::MakeMaker: '0'
configure_requires:
ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.1, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Carp
no_index:
directory:
- t

- inc
requires:
Config: '0'
Exporter: '0'
ExtUtils::MakeMaker: '0'
IPC::Open3: '1.0103'
Test::More: '0.47'
overload: '0'
strict: '0'
warnings: '0'
version: '1.38'
x_serialization_backend: 'CPAN::Meta::YAML version 0.017'

Found in path(s):
* /perl-Carp-1.42-396.el8.src.rpm-cosi-expand-archive-6G9eXuF1/Carp-1.38.tar.gz-cosi-expand-archive-ok6zis0t/Carp-1.38/META.yml
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1.71 perl-constant 1.33-396.el8

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License: GPL+ or Artistic

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NAME

constant - Perl pragma to declare constants

DESCRIPTION

This pragma allows you to declare constants at compile-time.

When a constant is used in an expression, Perl replaces it with its
value at compile time, and may then optimize the expression further.
In particular, any code in an "if (CONSTANT)" block will be optimized
away if the constant is false.

INSTALLATION

To install this module, run the following commands:

```
perl Makefile.PL
make
make test
make install
```

Alternatively, to install with Module::Build, you can use the following commands:

```
perl Build.PL
./Build
./Build test
./Build install
```

SUPPORT AND DOCUMENTATION

After installing, you can find documentation for this module with the perldoc command.

```
perldoc constant
```

You can also look for information at:

Search CPAN
http://search.cpan.org/dist/constant

CPAN Request Tracker:
http://rt.cpan.org/Dist/Display.html?Name=constant

AnnoCPAN, annotated CPAN documentation:
http://annocpan.org/dist/constant

CPAN Ratings:
http://cpanratings.perl.org/d/constant

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Found in path(s):
* /perl-constant-1.33-396.el8.src.rpm-cosi-expand-archive-m15loNwe/constant-1.27.tar.gz-cosi-expand-archive-jvagHUVh/constant-1.27/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

constant - Perl pragma to declare constants

=head1 SYNOPSIS

```
  use constant PI    => 4 * atan2(1, 1);
  use constant DEBUG => 0;

  print "Pi equals ", PI, "...\n" if DEBUG;

  use constant {
     SEC   => 0,
     MIN   => 1,
     HOUR  => 2,
     MDAY  => 3,
     MON   => 4,
     YEAR  => 5,
     WDAY  => 6,
     YDAY  => 7,
     ISDST => 8,
  };

  use constant WEEKDAYS => qw(
     Sunday Monday Tuesday Wednesday Thursday Friday Saturday
  );

  print "Today is ", (WEEKDAYS)[ (localtime)[WDAY] ], ".\n";
```

=head1 DESCRIPTION

This pragma allows you to declare constants at compile-time.

When you declare a constant such as C<PI> using the method shown
above, each machine your script runs upon can have as many digits
of accuracy as it can use. Also, your program will be easier to
read, more likely to be maintained (and maintained correctly), and
far less likely
 to send a space probe to the wrong planet because
nobody noticed the one equation in which you wrote C<3.14195>.

When a constant is used in an expression, Perl replaces it with its

value at compile time, and may then optimize the expression further.
In particular, any code in an C<if (CONSTANT)> block will be optimized
away if the constant is false.

=head1 NOTES

As with all C<use> directives, defining a constant happens at
compile time. Thus, it's probably not correct to put a constant
declaration inside of a conditional statement (like C<if ($foo)
{ use constant ... }>).

Constants defined using this module cannot be interpolated into
strings like variables. However, concatenation works just fine:

```
  print "Pi equals PI...\n";        # WRONG: does not expand "PI"
  print "Pi equals ".PI."...\n";    # right
```

Even though a reference may be declared as a constant, the reference may
point to data which may be changed, as this code shows.

```
  use constant ARRAY => [ 1,2,3,4 ];
   print ARRAY->[1];
  ARRAY->[1] = " be changed";
  print ARRAY->[1];
```

Dereferencing constant references incorrectly (such as using an array
subscript on a constant hash reference, or vice versa) will be trapped at
compile time.

Constants belong to the package they are defined in. To refer to a
constant defined in another package, specify the full package name, as
in C<Some::Package::CONSTANT>. Constants may be exported by modules,
and may also be called as either class or instance methods, that is,
as C<< Some::Package->CONSTANT >> or as C<< $obj->CONSTANT >> where
C<$obj> is an instance of C<Some::Package>. Subclasses may define
their own constants to override those in their base class.

The use of all caps for constant names is merely a convention,
although it is recommended in order to make constants stand out
and to help avoid collisions with other barewords, keywords, and
subroutine names. Constant names must begin with a letter or
underscore. Names beginning with a double
 underscore are reserved. Some
poor choices for names will generate warnings, if warnings are enabled at
compile time.

=head2 List constants

Constants may be lists of more (or less) than one value. A constant with no values evaluates to C<undef> in scalar context. Note that constants with more than one value do I<not> return their last value in scalar context as one might expect. They currently return the number of values, but B<this may change in the future>. Do not use constants with multiple values in scalar context.

B<NOTE:> This implies that the expression defining the value of a constant is evaluated in list context. This may produce surprises:

```
  use constant TIMESTAMP => localtime;              # WRONG!
  use constant TIMESTAMP => scalar localtime;       # right
```

The first line above defines C<TIMESTAMP> as a 9-element list, as returned by C<localtime()> in list context. To set it to the string returned by C<localtime()> in scalar context, an explicit C<scalar> keyword
 is required.

List constants are lists, not arrays. To index or slice them, they must be placed in parentheses.

```
  my @workdays = WEEKDAYS[1 .. 5];          # WRONG!
  my @workdays = (WEEKDAYS)[1 .. 5];        # right
```

=head2 Defining multiple constants at once

Instead of writing multiple C<use constant> statements, you may define multiple constants in a single statement by giving, instead of the constant name, a reference to a hash where the keys are the names of the constants to be defined. Obviously, all constants defined using this method must have a single value.

```
  use constant {
    FOO => "A single value",
    BAR => "This", "won't", "work!",       # Error!
  };
```

This is a fundamental limitation of the way hashes are constructed in Perl. The error messages produced when this happens will often be quite cryptic -- in the worst case there may be none at all, and you'll only later find that something is broken.

When defining multiple constants,
 you cannot use the values of other
constants defined in the same declaration. This is because the calling package doesn't know about any constant within that group until I<after> the C<use> statement is finished.

```
  use constant {
      BITMASK => 0xAFBAEBA8,
      NEGMASK => ~BITMASK,                   # Error!
  };
```

=head2 Magic constants

Magical values and references can be made into constants at compile time, allowing for way cool stuff like this. (These error numbers aren't totally portable, alas.)

```
  use constant E2BIG => ($! = 7);
  print   E2BIG, "\n";        # something like "Arg list too long"
  print 0+E2BIG, "\n";        # "7"
```

You can't produce a tied constant by giving a tied scalar as the value. References to tied variables, however, can be used as constants without any problems.

=head1 TECHNICAL NOTES

In the current implementation, scalar constants are actually inlinable subroutines. As of version 5.004 of Perl, the appropriate scalar constant is inserted
directly in place of some subroutine
calls, thereby saving the overhead of a subroutine call. See L<perlsub/"Constant Functions"> for details about how and when this happens.

In the rare case in which you need to discover at run time whether a particular constant has been declared via this module, you may use this function to examine the hash C<%constant::declared>. If the given constant name does not include a package name, the current package is used.

```
  sub declared ($) {
      use constant 1.01;              # don't omit this!
      my $name = shift;
      $name =~ s/^::/main::/;
      my $pkg = caller;
      my $full_name = $name =~ /::/ ? $name : "${pkg}::$name";
      $constant::declared{$full_name};
  }
```

=head1 CAVEATS

In the current version of Perl, list constants are not inlined

and some symbols may be redefined without generating a warning.

It is not possible to have a subroutine or a keyword with the same
name as a constant in the same package. This
 is probably a Good Thing.

A constant with a name in the list C<STDIN STDOUT STDERR ARGV ARGVOUT
ENV INC SIG> is not allowed anywhere but in package C<main::>, for
technical reasons.

Unlike constants in some languages, these cannot be overridden
on the command line or via environment variables.

You can get into trouble if you use constants in a context which
automatically quotes barewords (as is true for any subroutine call).
For example, you can't say C<$hash{CONSTANT}> because C<CONSTANT> will
be interpreted as a string. Use C<$hash{CONSTANT()}> or
C<$hash{+CONSTANT}> to prevent the bareword quoting mechanism from
kicking in. Similarly, since the C<< => >> operator quotes a bareword
immediately to its left, you have to say C<< CONSTANT() => 'value' >>
(or simply use a comma in place of the big arrow) instead of
C<< CONSTANT => 'value' >>.

=head1 SEE ALSO

L<Readonly> - Facility for creating read-only scalars, arrays, hashes.

L<Attribute::Constant> - Make read-only variables
 via attribute

L<Scalar::Readonly> - Perl extension to the C<SvREADONLY> scalar flag

L<Hash::Util> - A selection of general-utility hash subroutines (mostly
to lock/unlock keys and values)

=head1 BUGS

Please report any bugs or feature requests via the perlbug(1) utility.

=head1 AUTHORS

Tom Phoenix, E<lt>F<rootbeer@redcat.com>E<gt>, with help from
many other folks.

Multiple constant declarations at once added by Casey West,
E<lt>F<casey@geeknest.com>E<gt>.

Documentation mostly rewritten by Ilmari Karonen,

E<lt>F<perl@itz.pp.sci.fi>E<gt>.

This program is maintained by the Perl 5 Porters.
The CPAN distribution is maintained by SE<eacute>bastien Aperghis-Tramoni
E<lt>F<sebastien@aperghis.net>E<gt>.

=head1 COPYRIGHT & LICENSE

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=cut

Found in path(s):
* /perl-constant-1.33-396.el8.src.rpm-cosi-expand-archive-m15loNwe/constant-1.27.tar.gz-cosi-expand-archive-jvagHUVh/constant-1.27/lib/constant.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl pragma to declare constants'
author:
 - 'SÃ©bastien Aperghis-Tramoni <sebastien@aperghis.net>'
build_requires:
 Test::More: 0
configure_requires:
 Module::Build: 0.2808
dynamic_config: 1
generated_by: 'Module::Build version 0.4003, CPAN::Meta::Converter version 2.120921'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: constant
provides:
 constant:
   file: lib/constant.pm
   version: 1.27
resources:
 license: http://dev.perl.org/licenses/
version: 1.27

Found in path(s):
* /perl-constant-1.33-396.el8.src.rpm-cosi-expand-archive-m15loNwe/constant-1.27.tar.gz-cosi-expand-archive-jvagHUVh/constant-1.27/META.yml

1.72 perl-threads 2.21-2.el8

1.72.1 Available under license :

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

```
/*
----------------------------------------------------------------------

  ppport.h -- Perl/Pollution/Portability Version 3.32

  Automatically created by Devel::PPPort running under perl 5.022001.

  Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
  includes in parts/inc/ instead.

  Use 'perldoc ppport.h' to view the documentation below.

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

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.32

=head1 SYNOPSIS

 perl ppport.h [options] [source files]

 Searches current directory for files if no [source files] are given

 --help                  show short help

 --version               show version

 --patch=file            write one patch file with changes
 --copy=suffix           write changed copies with suffix
 --diff=program          use diff program and options

 --compat-version=version
   provide compatibility with Perl version
 --cplusplus             accept C++ comments

 --quiet                 don't output anything except fatal errors
 --nodiag                don't show diagnostics
```

```
--nohints                 don't show hints
--nochanges               don't suggest changes
--nofilter                don't filter input files

--strip                   strip all script and doc functionality from
                          ppport.h

--list-provided           list provided API
--list-unsupported        list unsupported API
--api-info=name           show Perl API portability information
```

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given,
 a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003.
 You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This

reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across
differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

  perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,

some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables
 will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

  #define NEED_function
  #define NEED_variable

For a global function or variable (used in multiple source files),
use:

  #define NEED_function_GLOBAL
  #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

  Function / Variable   Static Request   Global Request

  PL_parser   NEED_PL_parser   NEED_PL_parser_GLOBAL
  PL_signals   NEED_PL_signals   NEED_PL_signals_GLOBAL
  caller_cx()   NEED_caller_cx   NEED_caller_cx_GLOBAL
   eval_pv()   NEED_eval_pv   NEED_eval_pv_GLOBAL
  grok_bin()   NEED_grok_bin   NEED_grok_bin_GLOBAL
  grok_hex()   NEED_grok_hex   NEED_grok_hex_GLOBAL
  grok_number()   NEED_grok_number   NEED_grok_number_GLOBAL
  grok_numeric_radix()   NEED_grok_numeric_radix   NEED_grok_numeric_radix_GLOBAL
  grok_oct()   NEED_grok_oct   NEED_grok_oct_GLOBAL
  load_module()   NEED_load_module   NEED_load_module_GLOBAL
  mg_findext()   NEED_mg_findext   NEED_mg_findext_GLOBAL
  my_snprintf()   NEED_my_snprintf   NEED_my_snprintf_GLOBAL

```
my_sprintf()            NEED_my_sprintf            NEED_my_sprintf_GLOBAL
my_strlcat()            NEED_my_strlcat            NEED_my_strlcat_GLOBAL
my_strlcpy()            NEED_my_strlcpy            NEED_my_strlcpy_GLOBAL
newCONSTSUB()           NEED_newCONSTSUB           NEED_newCONSTSUB_GLOBAL
newRV_noinc()           NEED_newRV_noinc           NEED_newRV_noinc_GLOBAL
newSV_type()            NEED_newSV_type            NEED_newSV_type_GLOBAL
newSVpvn_flags()        NEED_newSVpvn_flags        NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()        NEED_newSVpvn_share        NEED_newSVpvn_share_GLOBAL
pv_display()            NEED_pv_display            NEED_pv_display_GLOBAL
pv_escape()             NEED_pv_escape             NEED_pv_escape_GLOBAL
pv_pretty()             NEED_pv_pretty             NEED_pv_pretty_GLOBAL
sv_2pv_flags()          NEED_sv_2pv_flags          NEED_sv_2pv_flags_GLOBAL
sv_2pvbyte()            NEED_sv_2pvbyte            NEED_sv_2pvbyte_GLOBAL
sv_catpvf_mg()          NEED_sv_catpvf_mg          NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags()    NEED_sv_pvn_force_flags    NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()          NEED_sv_setpvf_mg          NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
sv_unmagicext()         NEED_sv_unmagicext         NEED_sv_unmagicext_GLOBAL
vload_module()          NEED_vload_module          NEED_vload_module_GLOBAL
vnewSVpvf()             NEED_vnewSVpvf             NEED_vnewSVpvf_GLOBAL
warner()                NEED_warner                NEED_warner_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

```
  #define DPPP_NAMESPACE MyOwnNamespace_
  #include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h>
 on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

```
  perl ppport.h
```

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

  perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

  perl ppport.h --nochanges

You can specify a different C<diff> program or options, using
the C<--diff> option:

   perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

  perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function,
use:

  perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression,
you can use

  perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

  perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN

before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please
 include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

```
See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.32;

my %opt = (
 quiet     => 0,
 diag      => 1,
 hints     => 1,
 changes   => 1,
 cplusplus => 0,
 filter
    => 1,
 strip     => 0,
 version   => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/'.'*';
my $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt, qw(
   help quiet diag! filter! hints! changes! cplusplus strip version
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}
```

```
if ($opt{version}) {
 print "This is $0 $VERSION.\n";
 exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
  }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
 $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
            ? ( $1 => {
                ($2               ? ( base     => $2 ) : ()),
                ($3               ? ( todo     => $3 ) : ()),
                (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
               } )
            : die "invalid spec: $_" } qw(
ASCII_TO_NEED||5.007001|n
AvFILLp|5.004050||p
AvFILL|||
BhkDISABLE||5.021008|
BhkENABLE||5.021008|
BhkENTRY_set||5.021008|
BhkENTRY|||
BhkFLAGS|||
CALL_BLOCK_HOOKS|||
CLASS|||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
```

CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002|5.004050|p
Copy|||
CvPADLIST||5.008001|
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set|5.010001||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvAV|||
GvCV|||
GvHV|||
GvSVn|5.009003||p
GvSV|||
Gv_AMupdate||5.011000|
HEf_SVKEY|5.003070||p
HeHASH||5.003070|
HeKEY||5.003070|
HeKLEN||5.003070|
HePV||5.004000|
HeSVKEY_force||5.003070|
HeSVKEY_set||5.004000|
HeSVKEY||5.003070|
HeUTF8|5.010001|5.008000|p
HeVAL||5.003070|
HvENAMELEN||5.015004|

HvENAMEUTF8||5.015004|
HvENAME||5.013007|
HvNAMELEN_get|5.009003||p
HvNAMELEN||5.015004|
HvNAMEUTF8||5.015004|
HvNAME_get|5.009003||p
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LINKLIST||5.013006|
LVRET|||
MARK|||
MULTICALL||5.021008|
MUTABLE_PTR|5.010001||p
MUTABLE_SV|5.010001||p
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002|5.004050|p
Move|||
NATIVE_TO_NEED||5.007001|n
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||

OP_CLASS||5.013007|
OP_DESC||5.007003|
OP_NAME||5.007003|
OP_TYPE_IS_OR_WAS||5.019010|
OP_TYPE_IS||5.019007|
ORIGMARK|||
OpHAS_SIBLING||5.021007|
OpSIBLING_set||5.021007|
OpSIBLING||5.021007|
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SVl|||
PAD_SV|||
PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.021008||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.003070||p
PERL_INT_MAX|5.003070||p
PERL_INT_MIN|5.003070||p
PERL_LONG_MAX|5.003070||p
PERL_LONG_MIN|5.003070||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.021008||p
PERL_MAGIC_isaelem|5.007002||p

PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.021008||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.021008||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.021008||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.003070||p
PERL_QUAD_MIN|5.003070||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.003070||p

PERL_SHORT_MIN|5.003070||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3||5.006000|
PERL_SYS_INIT|||
PERL_SYS_TERM||5.021008|
PERL_UCHAR_MAX|5.003070||p
PERL_UCHAR_MIN|5.003070||p
PERL_UINT_MAX|5.003070||p
PERL_UINT_MIN|5.003070||p
PERL_ULONG_MAX|5.003070||p
PERL_ULONG_MIN|5.003070||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.003070||p
PERL_UQUAD_MIN|5.003070||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.003070||p
PERL_USHORT_MIN|5.003070||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.021008||p
PL_bufptr|5.021008||p
PL_check||5.006000|
PL_compiling|5.004050||p
PL_comppad_name||5.017004|
PL_comppad||5.008001|
PL_copline|5.021008||p
PL_curcop|5.004050||p
PL_curpad||5.005000|
PL_curstash|5.004050||p
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op_refcnt_inc|||
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pMY_CXT|5.007003||p
pTHX_|5.006000||p
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package|||
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perl_alloc|||n
perl_clone_using|||n
perl_clone|||n
perl_construct|||n
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ptr_table_free||5.009005|
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realloc||5.007002|n
reentrant_free||5.021008|
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refcounted_he_free|||
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refcounted_he_new_pvs|||
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reg_numbered_buff_store|||
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reg_skipcomment|||n
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save_I16||5.004000|
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save_bool||5.008001|
save_clearsv|||
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save_destructor_x||5.006000|
save_destructor||5.006000|

save_freeop|||
save_freepv|||
save_freesv|||
save_generic_pvref||5.006001|
save_generic_svref||5.005030|
save_gp||5.004000|
save_hash|||
save_hdelete||5.011000|
save_hek_flags|||n
save_helem_flags||5.011000|
save_helem||5.004050|
save_hints||5.010001|
save_hptr|||
save_int|||
save_item|||
save_iv||5.005000|
save_lines|||
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save_mortalizesv||5.007001|
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scalarseq|||
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set_context||5.006000|n
set_numeric_local||5.006000|
set_numeric_radix||5.006000|
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set_padlist|||n
setdefout|||
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share_hek||5.004000|
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si_dup|||
sighandler|||n
simplify_sort|||
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softref2xv|||
sortcv_stacked|||
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sortcv|||
sortsv_flags||5.009003|
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space_join_names_mortal|||
ss_dup|||
ssc_add_range|||
ssc_and|||
ssc_anything|||
ssc_clear_locale|||n
ssc_cp_and|||
ssc_finalize|||
ssc_init|||
ssc_intersection|||
ssc_is_anything|||n
ssc_is_cp_posixl_init|||n
ssc_or|||
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stdize_locale|||
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study_chunk|||
sub_crush_depth|||
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sublex_push|||
sublex_start|||
sv_2bool_flags||5.013006|
sv_2bool|||
sv_2cv|||
sv_2io|||
sv_2iuv_common|||
sv_2iuv_non_preserve|||
sv_2iv_flags||5.009001|
sv_2iv|||
sv_2mortal|||
sv_2num|||
sv_2nv_flags||5.013001|
sv_2pv_flags|5.007002||p
sv_2pv_nolen|5.006000||p
sv_2pvbyte_nolen|5.006000||p
sv_2pvbyte|5.006000||p

sv_2pvutf8_nolen||5.006000|
sv_2pvutf8||5.006000|
sv_2pv|||
sv_2uv_flags||5.009001|
sv_2uv|5.004000||p
sv_add_arena|||
sv_add_backref|||
sv_backoff|||n
sv_bless|||
sv_buf_to_ro|||
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sv_cat_decode||5.008001|
sv_catpv_flags||5.013006|
sv_catpv_mg|5.004050||p
sv_catpv_nomg||5.013006|
sv_catpvf_mg_nocontext|||pvn
sv_catpvf_mg|5.006000|5.004000|pv
sv_catpvf_nocontext|||vn
sv_catpvf||5.004000|v
sv_catpvn_flags||5.007002|
sv_catpvn_mg|5.004050||p
sv_catpvn_nomg|5.007002||p
sv_catpvn|||
sv_catpvs_flags||5.013006|
sv_catpvs_mg||5.013006|
sv_catpvs_nomg||5.013006|
sv_catpvs|5.009003||p
sv_catpv|||
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sv_catsv_mg|5.004050||p
sv_catsv_nomg|5.007002||p
sv_catsv|||
sv_chop|||
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sv_copypv|||
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sv_dec|||
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sv_derived_from_pv||5.015004|
sv_derived_from_sv||5.015004|
sv_derived_from||5.004000|
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sv_does_pv||5.015004|
sv_does_sv||5.015004|
sv_does||5.009004|
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sv_dup_inc|||
sv_dup|||
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sv_eq|||
sv_exp_grow|||
sv_force_normal_flags||5.007001|
sv_force_normal||5.006000|
sv_free2|||
sv_free_arenas|||
sv_free|||
sv_get_backrefs||5.021008|n
sv_gets||5.003070|
sv_grow|||
sv_i_ncmp|||
sv_inc_nomg||5.013002|
sv_inc|||
sv_insert_flags||5.010001|
sv_insert|||
sv_isa|||
sv_isobject|||
sv_iv||5.005000|
sv_kill_backrefs|||
sv_len_utf8_nomg|||
sv_len_utf8||5.006000|
sv_len|||
sv_magic_portable|5.021008|5.004000|p
sv_magicext_mglob|||
sv_magicext||5.007003|
sv_magic|||
sv_mortalcopy_flags|||
sv_mortalcopy|||
sv_ncmp|||
sv_newmortal|||
sv_newref|||
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sv_nounlocking|||
sv_nv||5.005000|
sv_only_taint_gmagic|||n
sv_or_pv_pos_u2b|||
sv_peek||5.005000|
sv_pos_b2u_flags||5.019003|
sv_pos_b2u_midway|||
sv_pos_b2u||5.006000|
sv_pos_u2b_cached|||
sv_pos_u2b_flags||5.011005|
sv_pos_u2b_forwards|||n
sv_pos_u2b_midway|||n
sv_pos_u2b||5.006000|
sv_pvbyten_force||5.006000|
sv_pvbyten||5.006000|
sv_pvbyte||5.006000|
sv_pvn_force_flags|5.007002||p
sv_pvn_force|||
sv_pvn_nomg|5.007003|5.005000|p
sv_pvn||5.005000|
sv_pvutf8n_force||5.006000|
sv_pvutf8n||5.006000|
sv_pvutf8||5.006000|
sv_pv||5.006000|
sv_recode_to_utf8||5.007003|
sv_reftype|||
sv_ref|||
sv_release_COW|||
sv_replace|||
sv_report_used|||
sv_resetpvn|||
sv_reset|||
sv_rvweaken||5.006000|
sv_sethek|||
sv_setiv_mg|5.004050||p
sv_setiv|||
sv_setnv_mg|5.006000||p
sv_setnv|||
sv_setpv_mg|5.004050||p
sv_setpvf_mg_nocontext|||pvn
sv_setpvf_mg|5.006000|5.004000|pv
sv_setpvf_nocontext|||vn
sv_setpvf||5.004000|v
sv_setpviv_mg||5.008001|
sv_setpviv||5.008001|
sv_setpvn_mg|5.004050||p
sv_setpvn|||

sv_setpvs_mg||5.013006|
sv_setpvs|5.009004||p
sv_setpv|||
sv_setref_iv|||
sv_setref_nv|||
sv_setref_pvn|||
sv_setref_pvs||5.021008|
sv_setref_pv|||
sv_setref_uv||5.007001|
sv_setsv_cow|||
sv_setsv_flags||5.007002|
sv_setsv_mg|5.004050||p
sv_setsv_nomg|5.007002||p
sv_setsv|||
sv_setuv_mg|5.004050||p
sv_setuv|5.004000||p
sv_tainted||5.004000|
sv_taint||5.004000|
sv_true||5.005000|
sv_unglob|||
sv_uni_display||5.007003|
sv_unmagicext|5.013008||p
sv_unmagic|||
sv_unref_flags||5.007001|
sv_unref|||
sv_untaint||5.004000|
sv_upgrade|||
sv_usepvn_flags||5.009004|
sv_usepvn_mg|5.004050||p
sv_usepvn|||
sv_utf8_decode||5.006000|
sv_utf8_downgrade||5.006000|
sv_utf8_encode||5.006000|
sv_utf8_upgrade_flags_grow||5.011000|
sv_utf8_upgrade_flags||5.007002|
sv_utf8_upgrade_nomg||5.007002|
sv_utf8_upgrade||5.007001|
sv_uv|5.005000||p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn_flags||5.017002|
sv_vcatpvfn||5.004000|
sv_vcatpvf|5.006000|5.004000|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn||5.004000|
sv_vsetpvf|5.006000|5.004000|p
svtype|||
swallow_bom|||
swash_fetch||5.007002|

swash_init||5.006000|
swash_scan_list_line|||
swatch_get|||
sync_locale||5.021004|
sys_init3||5.010000|n
sys_init||5.010000|n
sys_intern_clear|||
sys_intern_dup|||
sys_intern_init|||
sys_term||5.010000|n
taint_env|||
taint_proper|||
tied_method|||v
tmps_grow_p|||
toFOLD_uni||5.007003|
toFOLD_utf8||5.019001|
toFOLD||5.019001|
toLOWER_L1||5.019001|
toLOWER_LC||5.004000|
toLOWER_uni||5.007003|
toLOWER_utf8||5.015007|
toLOWER|||
toTITLE_uni||5.007003|
toTITLE_utf8||5.015007|
toTITLE||5.019001|
toUPPER_uni||5.007003|
toUPPER_utf8||5.015007|
toUPPER|||
to_byte_substr|||
to_lower_latin1|||n
to_uni_fold||5.007003|
to_uni_lower_lc||5.006000|
to_uni_lower||5.007003|
to_uni_title_lc||5.006000|
to_uni_title||5.007003|
to_uni_upper_lc||5.006000|
to_uni_upper||5.007003|
to_utf8_case||5.007003|
to_utf8_fold||5.015007|
to_utf8_lower||5.015007|
to_utf8_substr|||
to_utf8_title||5.015007|
to_utf8_upper||5.015007|
tokenize_use|||
tokeq|||
tokereport|||
too_few_arguments_pv|||
too_many_arguments_pv|||

translate_substr_offsets|||n
try_amagic_bin|||
try_amagic_un|||
uiv_2buf|||n
unlnk|||
unpack_rec|||
unpack_str||5.007003|
unpackstring||5.008001|
unreferenced_to_tmp_stack|||
unshare_hek_or_pvn|||
unshare_hek|||
unsharepvn||5.003070|
unwind_handler_stack|||
update_debugger_info|||
upg_version||5.009005|
usage|||
utf16_textfilter|||
utf16_to_utf8_reversed||5.006001|
utf16_to_utf8||5.006001|
utf8_distance||5.006000|
utf8_hop||5.006000|n
utf8_length||5.007001|
utf8_mg_len_cache_update|||
utf8_mg_pos_cache_update|||
utf8_to_bytes||5.006001|
utf8_to_uvchr_buf||5.015009|
utf8_to_uvchr||5.007001|
utf8_to_uvuni_buf||5.015009|
utf8_to_uvuni||5.007001|
utf8n_to_uvchr||5.007001|
utf8n_to_uvuni||5.007001|
utilize|||
uvchr_to_utf8_flags||5.007003|
uvchr_to_utf8||5.007001|
uvoffuni_to_utf8_flags||5.019004|
uvuni_to_utf8_flags||5.007003|
uvuni_to_utf8||5.007001|
valid_utf8_to_uvchr||5.015009|
valid_utf8_to_uvuni||5.015009|
validate_proto|||
validate_suid|||
varname|||
vcmp||5.009000|
vcroak||5.006000|
vdeb||5.007003|
vform||5.006000|
visit|||
vivify_defelem|||

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vivify_ref|||
vload_module|5.006000||p
vmess||5.006000|
vnewSVpvf|5.006000|5.004000|p
vnormal||5.009002|
vnumify||5.009000|
vstringify||5.009000|
vverify||5.009003|
vwarner||5.006000|
vwarn||5.006000|
wait4pid|||
warn_nocontext|||vn
warn_sv||5.013001|
warner_nocontext|||vn
warner|5.006000|5.004000|pv
warn|||v
was_lvalue_sub|||
watch|||
whichsig_pvn||5.015004|
whichsig_pv||5.015004|
whichsig_sv||5.015004|
whichsig|||
win32_croak_not_implemented|||n
with_queued_errors|||
wrap_op_checker||5.015008|
write_to_stderr|||
xs_boot_epilog|||
xs_handshake|||vn
xs_version_bootcheck|||
yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{todo};
   print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}
```

```
# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define,
 $function);

sub find_api
{
 my $code = shift;
 $code =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | "[^"\\]*(?:\\.[^"\\]*)*"
 | '[^\\]*(?:\\.[^\\]*)*' }{}egsx;
 grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>) {
 if ($hint) {
   my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
   if (m{^\s*\*\s(.*?)\s*$}) {
     for (@{$hint->[1]}) {
       $h->{$_} ||= '';  # suppress warning with older perls
       $h->{$_} .= "$1\n";
     }
   }
   else { undef $hint }
 }

 $hint = [$1, [split /,?\s+/, $2]]
     if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

 if ($define) {
   if ($define->[1] =~ /\\$/) {
     $define->[1] .= $_;
   }
   else {
     if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
       my @n = find_api($define->[1]);
       push @{$depends{$define->[0]}}, @n if @n
     }
     undef $define;
   }
 }

 $define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

 if ($function)
```

```
{
  if (/^}/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}

$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
$replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
$replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
  my @deps = map { s/\s+//g; $_ } split /,/, $3;
  my $d;
  for $d (map { s/\s+//g; $_ } split /,/, $1) {
    push @{$depends{$d}}, @deps;
  }
}

$need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

for (values %depends) {
 my %s;
 $_ = [sort grep !$s{$_}++,
 @$_];
}

if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $f =~ /$match/;
   print "\n=== $f ===\n\n";
   my $info = 0;
   if ($API{$f}{base} || $API{$f}{todo}) {
     my $base = format_version($API{$f}{base} || $API{$f}{todo});
     print "Supported at least starting from perl-$base.\n";
```

```
    $info++;
  }
  if ($API{$f}{provided}) {
    my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
    print "Support by $ppport provided back to perl-$todo.\n";
    print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
    print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
    print "\n$hints{$f}" if exists $hints{$f};
    print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    $info++;
  }
  print "No portability information available.\n"
 unless $info;
  $count++;
 }
 $count or print "Found no API matching '$opt{'api-info'}'.";
 print "\n";
 exit 0;
}

if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend'   if exists $depends{$f};
  push @flags, 'hint'     if exists $hints{$f};
  push @flags, 'warning'  if exists $warnings{$f};
  my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
  print "$f$flags\n";
 }
 exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
 my %seen;
 for (@ARGV) {
  if (-e) {
    if (-f) {
      push @files, $_ unless $seen{$_}++;
    }
    else { warn "'$_' is not a file.\n" }
  }
```

```
  else {
    my @new = grep { -f } glob $_
        or warn "'$_' does not exist.\n";
    push @files, grep { !$seen{$_}++ } @new;
   }
 }
}
else {
 eval {
  require File::Find;
  File::Find::find(sub {
    $File::Find::name =~ /($srcext)$/i
        and push @files, $File::Find::name;
  }, '.');
 };
 if ($@) {
  @files = map { glob "*$_" } @srcext;
 }
}

if (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
  my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
  push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
  warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
 }
 @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
 unless (open IN, "<$filename") {
  warn "Unable to read from $filename: $!\n";
  next;
 }

 info("Scanning $filename ...");
```

```
my $c = do { local $/; <IN> };
close IN;

 my %file = (orig => $c, changes => 0);

# Temporarily remove C/XS comments and strings from the code
my @ccom;

$c =~ s{
  ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
  | ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
  | "[^"\\]*(?:\\.[^"\\]*)*"
  | '[^\\]*(?:\\.[^\\]*)*'
  | / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
   defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
          $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
```

```
        $file{uses_todo}{$func}++;
       }
      }
     }
    }

    while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
     if (exists $need{$2}) {
      $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
     }
     else { warning("Possibly wrong #define $1 in $filename") }
    }

    for (qw(uses needs uses_todo needed_global needed_static)) {
     for $func (keys %{$file{$_}}) {
      push
    @{$global{$_}{$func}}, $filename;
     }
    }

    $files{$filename} = \%file;
   }

   # Globally resolve NEED_'s
   my $need;
   for $need (keys %{$global{needs}}) {
    if (@{$global{needs}{$need}} > 1) {
     my @targets = @{$global{needs}{$need}};
     my @t = grep $files{$_}{needed_global}{$need}, @targets;
     @targets = @t if @t;
     @t = grep /\.xs$/i, @targets;
     @targets = @t if @t;
     my $target = shift @targets;
     $files{$target}{needs}{$need} = 'global';
     for (@{$global{needs}{$need}}) {
      $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
     }
    }
   }

   for $filename (@files) {
    exists $files{$filename} or next;

    info("=== Analyzing $filename ===");

    my %file = %{$files{$filename}};
    my $func;
    my $c = $file{code};
```

```
my $warnings = 0;

for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
                          { $1 . ($2
eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
                          {$func$1(}g);
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable
below perl ",
          format_version($API{$func}{todo}), ", even with '$ppport'\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
```

```
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = '';
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif
($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = '';

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
```

```
    }
    $pp .= "#define NEED_$func$suffix\n";
   }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
   $pp = '';
   $file{changes}++;
  }

  unless
($file{has_inc_ppport}) {
   diag("Needs to include '$ppport'");
   $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
   $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
              || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
              || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
              || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
   diag("No need to include '$ppport'");
   $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
   $cppc++;
   $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
   $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is
```

```
not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
           goto fallback;
        }
      }
      mydiff(\*PATCH, $filename, $c);
    }
    else {
fallback:
      info("Suggested changes:");
      mydiff(\*STDOUT, $filename, $c);
    }
  }
  else {
    my $s = $file{changes} == 1 ? '' : 's';
```

```
    info("$file{changes} potentially required change$s detected");
  }
 }
 else {
  info("Looks good");
 }
}

close PATCH if $patch_opened;

exit 0;


sub try_use { eval "use @_;"; return $@ eq '' }

sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
  $diff = run_diff($opt{diff}, $file, $str);
 }

 if (!defined $diff and try_use('Text::Diff')) {
  $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
  $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
  $diff = run_diff('diff -u', $file, $str);
 }

 if (!defined $diff) {
  $diff = run_diff('diff', $file, $str);
 }

 if (!defined $diff) {
  error("Cannot
 generate a diff. Please install Text::Diff or use --copy.");
  return;
 }

 print F $diff;
```

```
}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dpppptemp';
 my $suf = 'aaa';
 my $diff = '';
 local *F;

 while (-e "$tmp.$suf") { $suf++ }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
   print F $str;
   close F;

   if (open F, "$prog $file $tmp |") {
     while (<F>) {
       s/\Q$tmp\E/$file.patched/;
       $diff .= $_;
     }
     close F;
     unlink $tmp;
     return $diff;
   }

   unlink $tmp;
 }
 else {
   error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
}

sub rec_depend
{
 my($func, $seen) = @_;
 return () unless exists $depends{$func};
 $seen = {%{$seen||{}}};
 return () if $seen->{$func}++;
 my %s;
 grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
```

```
 my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
   return ($1, $2, $3);
 }
 elsif ($ver !~ /^\d+\.[\d_]+$/) {
    die "cannot parse version '$ver'\n";
 }

 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "cannot parse version '$ver'\n";
   }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "invalid version '$ver'\n";
   }
   $s /= 10;

   $ver = sprintf "%d.%03d", $r, $v;
   $s > 0 and $ver .= sprintf "_%02d", $s;

   return $ver;
 }
```

```
 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
 $opt{quiet} and return;
 print @_, "\n";
}

sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
 $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub
 hint
{
 $opt{quiet} and return;
 my $func = shift;
 my $rv = 0;
 if (exists $warnings{$func} && !$given_warnings{$func}++) {
   my $warn = $warnings{$func};
   $warn =~ s!^!*** !mg;
   print "*** WARNING: $func\n", $warn;
   $rv++;
 }
 if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
   my $hint = $hints{$func};
   $hint =~ s/^/   /mg;
   print "   --- hint for $func ---\n", $hint;
 }
 $rv;
}
```

```
sub usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}

sub strip
{
 my $self = do { local(@ARGV,$/)=($0); <> };
 my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
 $copy =~ s/^(?=\S+)/    /gms;
 $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
 $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0]
 eq '--unstrip') {
 eval { require Devel::PPPort };
 \$@ and die "Cannot require Devel::PPPort, please install.\\n";
 if (eval \$Devel::PPPort::VERSION < $VERSION) {
   die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
     . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
     . "Please install a newer version, or --unstrip will not work.\\n";
 }
 Devel::PPPort::WriteFile(\$0);
 exit 0;
}
print <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

 \$^X \$0 --unstrip

END
/ms;
```

```
 my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
 $c =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | ( "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*' )
 | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
 $c =~ s!\s+$!!mg;
 $c =~ s!^$LF!!mg;
 $c =~ s!^\s*#\s*!#!mg;
 $c =~ s!^\s+!!mg;

 open OUT, ">$0" or die "cannot strip $0: $!\n";
  print OUT "$pl$c\n";

 exit 0;
}

__DATA__
*/
```

Found in path(s):
* /perl-threads-2.21-2.el8.src.rpm-cosi-expand-archive-zEPvysjP/threads-2.21.tar.gz-cosi-expand-archive-LaI5P9yQ/threads-2.21/ppport.h
No license file was found, but licenses were detected in source scan.

License: GPL+ or Artistic

Found in path(s):
* /perl-threads-2.21-2.el8.src.rpm-cosi-expand-archive-zEPvysjP/perl-threads.spec
No license file was found, but licenses were detected in source scan.

```
=head1 NAME

threads - Perl interpreter-based threads

=head1 VERSION

This document describes threads version 2.21

=head1 WARNING

The "interpreter-based threads" provided by Perl are not the fast, lightweight
system for multitasking that one might expect or hope for.  Threads are
implemented in a way that make them easy to misuse.  Few people know how to
use them correctly or will be able to provide help.

The use of interpreter-based threads in perl is officially
L<discouraged|perlpolicy/discouraged>.
```

```
=head1 SYNOPSIS

  use threads ('yield',
               'stack_size' => 64*4096,
               'exit' => 'threads_only',
               'stringify');

  sub start_thread {
     my @args = @_;
     print('Thread started: ', join(' ', @args), "\n");
  }
  my $thr = threads->create('start_thread', 'argument');
  $thr->join();

  threads->create(sub { print("I am a thread\n"); })->join();


 my $thr2 = async { foreach (@files) { ... } };
  $thr2->join();
  if (my $err = $thr2->error()) {
     warn("Thread error: $err\n");
  }

  # Invoke thread in list context (implicit) so it can return a list
  my ($thr) = threads->create(sub { return (qw/a b c/); });
  # or specify list context explicitly
  my $thr = threads->create({'context' => 'list'},
                            sub { return (qw/a b c/); });
  my @results = $thr->join();

  $thr->detach();

  # Get a thread's object
  $thr = threads->self();
  $thr = threads->object($tid);

  # Get a thread's ID
  $tid = threads->tid();
  $tid = $thr->tid();
  $tid = "$thr";

  # Give other threads a chance to run
  threads->yield();
  yield();

  # Lists of non-detached threads
  my @threads = threads->list();
```

```
  my $thread_count = threads->list();

  my @running = threads->list(threads::running);
  my @joinable = threads->list(threads::joinable);

  # Test thread objects
  if
($thr1 == $thr2) {
     ...
  }

  # Manage thread stack size
  $stack_size = threads->get_stack_size();
  $old_size = threads->set_stack_size(32*4096);

  # Create a thread with a specific context and stack size
  my $thr = threads->create({ 'context'    => 'list',
                              'stack_size' => 32*4096,
                              'exit'       => 'thread_only' },
                            \&foo);

  # Get thread's context
  my $wantarray = $thr->wantarray();

  # Check thread's state
  if ($thr->is_running()) {
     sleep(1);
  }
  if ($thr->is_joinable()) {
     $thr->join();
  }

  # Send a signal to a thread
  $thr->kill('SIGUSR1');

  # Exit a thread
  threads->exit();

=head1 DESCRIPTION

Since Perl 5.8, thread programming has been available using a model called
I<interpreter threads> which provides a new Perl interpreter for each
thread, and, by default, results in no data or state information being shared
between
 threads.

(Prior to Perl 5.8, I<5005threads> was available through the C<Thread.pm> API.
This threading model has been deprecated, and was removed as of Perl 5.10.0.)
```

As just mentioned, all variables are, by default, thread local. To use shared
variables, you need to also load L<threads::shared>:

```
  use threads;
  use threads::shared;
```

When loading L<threads::shared>, you must C<use threads> before you
C<use threads::shared>. (C<threads> will emit a warning if you do it the
other way around.)

It is strongly recommended that you enable threads via C<use threads> as early
as possible in your script.

If needed, scripts can be written so as to run on both threaded and
non-threaded Perls:

```
  my $can_use_threads = eval 'use threads; 1';
  if ($can_use_threads) {
     # Do processing using threads
     ...
  } else {
     # Do it without using threads
     ...
  }
```

=over

=item $thr = threads->create(FUNCTION, ARGS)

This will create a new thread that will begin
 execution with the specified
entry point function, and give it the I<ARGS> list as parameters. It will
return the corresponding threads object, or C<undef> if thread creation failed.

I<FUNCTION> may either be the name of a function, an anonymous subroutine, or
a code ref.

```
  my $thr = threads->create('func_name', ...);
     # or
  my $thr = threads->create(sub { ... }, ...);
     # or
  my $thr = threads->create(\&func, ...);
```

The C<-E<gt>new()> method is an alias for C<-E<gt>create()>.

=item $thr->join()

This will wait for the corresponding thread to complete its execution. When the thread finishes, C<-E<gt>join()> will return the return value(s) of the entry point function.

The context (void, scalar or list) for the return value(s) for C<-E<gt>join()> is determined at the time of thread creation.

```
  # Create thread in list context (implicit)
  my ($thr1) = threads->create(sub {
                          my @results = qw(a b c);

              return (@results);
                        });
  #   or (explicit)
  my $thr1 = threads->create({'context' => 'list'},
                       sub {
                          my @results = qw(a b c);
                          return (@results);
                       });
  # Retrieve list results from thread
  my @res1 = $thr1->join();

  # Create thread in scalar context (implicit)
  my $thr2 = threads->create(sub {
                          my $result = 42;
                          return ($result);
                        });
  # Retrieve scalar result from thread
  my $res2 = $thr2->join();

  # Create a thread in void context (explicit)
  my $thr3 = threads->create({'void' => 1},
                       sub { print("Hello, world\n"); });
  # Join the thread in void context (i.e., no return value)
  $thr3->join();
```

See L</"THREAD CONTEXT"> for more details.

If the
 program exits without all threads having either been joined or
detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already joined thread will cause an error to be thrown.

=item $thr->detach()

Makes the thread unjoinable, and causes any eventual return value to be

discarded. When the program exits, any detached threads that are still
running are silently terminated.

If the program exits without all threads having either been joined or
detached, then a warning will be issued.

Calling C<-E<gt>join()> or C<-E<gt>detach()> on an already detached thread
will cause an error to be thrown.

=item threads->detach()

Class method that allows a thread to detach itself.

=item threads->self()

Class method that allows a thread to obtain its own I<threads> object.

=item $thr->tid()

Returns the ID of the thread. Thread IDs are unique integers with the main
thread in a program being 0, and incrementing by 1 for every thread created.

=item threads->tid()

Class
 method that allows a thread to obtain its own ID.

=item "$thr"

If you add the C<stringify> import option to your C<use threads> declaration,
then using a threads object in a string or a string context (e.g., as a hash
key) will cause its ID to be used as the value:

```
  use threads qw(stringify);

  my $thr = threads->create(...);
  print("Thread $thr started\n");  # Prints: Thread 1 started
```

=item threads->object($tid)

This will return the I<threads> object for the I<active> thread associated
with the specified thread ID. If C<$tid> is the value for the current thread,
then this call works the same as C<-E<gt>self()>. Otherwise, returns C<undef>
if there is no thread associated with the TID, if the thread is joined or
detached, if no TID is specified or if the specified TID is undef.

=item threads->yield()

This is a suggestion to the OS to let this thread yield CPU time to other threads. What actually happens is highly dependent upon the underlying thread implementation.

You
 may do C<use threads qw(yield)>, and then just use C<yield()> in your code.

=item threads->list()

=item threads->list(threads::all)

=item threads->list(threads::running)

=item threads->list(threads::joinable)

With no arguments (or using C<threads::all>) and in a list context, returns a list of all non-joined, non-detached I<threads> objects. In a scalar context, returns a count of the same.

With a I<true> argument (using C<threads::running>), returns a list of all non-joined, non-detached I<threads> objects that are still running.

With a I<false> argument (using C<threads::joinable>), returns a list of all non-joined, non-detached I<threads> objects that have finished running (i.e., for which C<-E<gt>join()> will not I<block>).

=item $thr1->equal($thr2)

Tests if two threads objects are the same thread or not. This is overloaded to the more natural forms:

```
  if ($thr1 == $thr2) {
     print("Threads are the same\n");
  }
  # or
  if ($thr1 != $thr2)
 {
     print("Threads differ\n");
  }
```

(Thread comparison is based on thread IDs.)

=item async BLOCK;

C<async> creates a thread to execute the block immediately following it. This block is treated as an anonymous subroutine, and so must have a semicolon after the closing brace. Like C<threads-E<gt>create()>, C<async>

returns a I<threads> object.

=item $thr->error()

Threads are executed in an C<eval> context. This method will return C<undef>
if the thread terminates I<normally>. Otherwise, it returns the value of
C<$@> associated with the thread's execution status in its C<eval> context.

=item $thr->_handle()

This I<private> method returns a pointer (i.e., the memory location expressed
as an unsigned integer) to the internal thread structure associated with a
threads object. For Win32, this is a pointer to the C<HANDLE> value returned
by C<CreateThread> (i.e., C<HANDLE *>); for other platforms, it is a pointer
to the C<pthread_t> structure used in the C<pthread_create>
 call (i.e.,
C<pthread_t *>).

This method is of no use for general Perl threads programming. Its intent is
to provide other (XS-based) thread modules with the capability to access, and
possibly manipulate, the underlying thread structure associated with a Perl
thread.

=item threads->_handle()

Class method that allows a thread to obtain its own I<handle>.

=back

=head1 EXITING A THREAD

The usual method for terminating a thread is to
L<return()|perlfunc/"return EXPR"> from the entry point function with the
appropriate return value(s).

=over

=item threads->exit()

If needed, a thread can be exited at any time by calling
C<threads-E<gt>exit()>. This will cause the thread to return C<undef> in a
scalar context, or the empty list in a list context.

When called from the I<main> thread, this behaves the same as C<exit(0)>.

=item threads->exit(status)

When called from a thread, this behaves like C<threads-E<gt>exit()> (i.e., the

exit status code is ignored).

When called from the I<main>
 thread, this behaves the same as C<exit(status)>.

=item die()

Calling C<die()> in a thread indicates an abnormal exit for the thread. Any
C<$SIG{__DIE__}> handler in the thread will be called first, and then the
thread will exit with a warning message that will contain any arguments passed
in the C<die()> call.

=item exit(status)

Calling L<exit()|perlfunc/"exit EXPR"> inside a thread causes the whole
application to terminate. Because of this, the use of C<exit()> inside
threaded code, or in modules that might be used in threaded applications, is
strongly discouraged.

If C<exit()> really is needed, then consider using the following:

```
  threads->exit() if threads->can('exit');   # Thread friendly
  exit(status);
```

=item use threads 'exit' => 'threads_only'

This globally overrides the default behavior of calling C<exit()> inside a
thread, and effectively causes such calls to behave the same as
C<threads-E<gt>exit()>. In other words, with this setting, calling C<exit()>
causes
 only the thread to terminate.

Because of its global effect, this setting should not be used inside modules
or the like.

The I<main> thread is unaffected by this setting.

=item threads->create({'exit' => 'thread_only'}, ...)

This overrides the default behavior of C<exit()> inside the newly created
thread only.

=item $thr->set_thread_exit_only(boolean)

This can be used to change the I<exit thread only> behavior for a thread after
it has been created. With a I<true> argument, C<exit()> will cause only the
thread to exit. With a I<false> argument, C<exit()> will terminate the
application.

The I<main> thread is unaffected by this call.

=item threads->set_thread_exit_only(boolean)

Class method for use inside a thread to change its own behavior for C<exit()>.

The I<main> thread is unaffected by this call.

=back

=head1 THREAD STATE

The following boolean methods are useful in determining the I<state> of a thread.

=over

=item $thr->is_running()

Returns true if a thread is
 still running (i.e., if its entry point function
has not yet finished or exited).

=item $thr->is_joinable()

Returns true if the thread has finished running, is not detached and has not yet been joined. In other words, the thread is ready to be joined, and a call to C<$thr-E<gt>join()> will not I<block>.

=item $thr->is_detached()

Returns true if the thread has been detached.

=item threads->is_detached()

Class method that allows a thread to determine whether or not it is detached.

=back

=head1 THREAD CONTEXT

As with subroutines, the type of value returned from a thread's entry point function may be determined by the thread's I<context>: list, scalar or void. The thread's context is determined at thread creation. This is necessary so that the context is available to the entry point function via L<wantarray()|perlfunc/"wantarray">. The thread may then specify a value of the appropriate type to be returned from C<-E<gt>join()>.

=head2 Explicit context

Because thread creation
 and thread joining may occur in different contexts, it
may be desirable to state the context explicitly to the thread's entry point
function. This may be done by calling C<-E<gt>create()> with a hash reference
as the first argument:

```
  my $thr = threads->create({'context' => 'list'}, \&foo);
  ...
  my @results = $thr->join();
```

In the above, the threads object is returned to the parent thread in scalar
context, and the thread's entry point function C<foo> will be called in list
(array) context such that the parent thread can receive a list (array) from
the C<-E<gt>join()> call. (C<'array'> is synonymous with C<'list'>.)

Similarly, if you need the threads object, but your thread will not be
returning a value (i.e., I<void> context), you would do the following:

```
  my $thr = threads->create({'context' => 'void'}, \&foo);
  ...
  $thr->join();
```

The context type may also be used as the I<key> in the hash reference followed
by a I<true> value:

```
  threads->create({'scalar' =>
1}, \&foo);
  ...
  my ($thr) = threads->list();
  my $result = $thr->join();
```

=head2 Implicit context

If not explicitly stated, the thread's context is implied from the context
of the C<-E<gt>create()> call:

```
  # Create thread in list context
  my ($thr) = threads->create(...);

  # Create thread in scalar context
  my $thr = threads->create(...);

  # Create thread in void context
  threads->create(...);
```

=head2 $thr->wantarray()

This returns the thread's context in the same manner as
L<wantarray()|perlfunc/"wantarray">.

=head2 threads->wantarray()

Class method to return the current thread's context. This returns the same
value as running L<wantarray()|perlfunc/"wantarray"> inside the current
thread's entry point function.

=head1 THREAD STACK SIZE

The default per-thread stack size for different platforms varies
significantly, and is almost always far more than is needed for most
applications. On Win32, Perl's makefile explicitly sets the default stack to
16
 MB; on most other platforms, the system default is used, which again may be
much larger than is needed.

By tuning the stack size to more accurately reflect your application's needs,
you may significantly reduce your application's memory usage, and increase the
number of simultaneously running threads.

Note that on Windows, address space allocation granularity is 64 KB,
therefore, setting the stack smaller than that on Win32 Perl will not save any
more memory.

=over

=item threads->get_stack_size();

Returns the current default per-thread stack size. The default is zero, which
means the system default stack size is currently in use.

=item $size = $thr->get_stack_size();

Returns the stack size for a particular thread. A return value of zero
indicates the system default stack size was used for the thread.

=item $old_size = threads->set_stack_size($new_size);

Sets a new default per-thread stack size, and returns the previous setting.

Some platforms have a minimum thread stack size.
 Trying to set the stack size
below this value will result in a warning, and the minimum stack size will be
used.

Some Linux platforms have a maximum stack size. Setting too large of a stack
size will cause thread creation to fail.

If needed, C<$new_size> will be rounded up to the next multiple of the memory
page size (usually 4096 or 8192).

Threads created after the stack size is set will then either call
C<pthread_attr_setstacksize()> I<(for pthreads platforms)>, or supply the
stack size to C<CreateThread()> I<(for Win32 Perl)>.

(Obviously, this call does not affect any currently extant threads.)

=item use threads ('stack_size' => VALUE);

This sets the default per-thread stack size at the start of the application.

=item $ENV{'PERL5_ITHREADS_STACK_SIZE'}

The default per-thread stack size may be set at the start of the application
through the use of the environment variable C<PERL5_ITHREADS_STACK_SIZE>:

```
  PERL5_ITHREADS_STACK_SIZE=1048576
  export PERL5_ITHREADS_STACK_SIZE
   perl -e'use threads; print(threads->get_stack_size(), "\n")'
```

This value overrides any C<stack_size> parameter given to C<use threads>. Its
primary purpose is to permit setting the per-thread stack size for legacy
threaded applications.

=item threads->create({'stack_size' => VALUE}, FUNCTION, ARGS)

To specify a particular stack size for any individual thread, call
C<-E<gt>create()> with a hash reference as the first argument:

```
  my $thr = threads->create({'stack_size' => 32*4096},
                            \&foo, @args);
```

=item $thr2 = $thr1->create(FUNCTION, ARGS)

This creates a new thread (C<$thr2>) that inherits the stack size from an
existing thread (C<$thr1>). This is shorthand for the following:

```
  my $stack_size = $thr1->get_stack_size();
  my $thr2 = threads->create({'stack_size' => $stack_size},
                             FUNCTION, ARGS);
```

=back

=head1 THREAD SIGNALLING

When safe signals is in effect (the default behavior - see L</"Unsafe signals">
for
 more details), then signals may be sent and acted upon by individual
threads.

=over 4

=item $thr->kill('SIG...');

Sends the specified signal to the thread. Signal names and (positive) signal
numbers are the same as those supported by
L<kill()|perlfunc/"kill SIGNAL, LIST">. For example, 'SIGTERM', 'TERM' and
(depending on the OS) 15 are all valid arguments to C<-E<gt>kill()>.

Returns the thread object to allow for method chaining:

  $thr->kill('SIG...')->join();

=back

Signal handlers need to be set up in the threads for the signals they are
expected to act upon. Here's an example for I<cancelling> a thread:

  use threads;

  sub thr_func
  {
     # Thread 'cancellation' signal handler
     $SIG{'KILL'} = sub { threads->exit(); };

     ...
  }

  # Create a thread
  my $thr = threads->create('thr_func');

  ...

  # Signal the thread to terminate, and then detach
  # it so that it will get cleaned up automatically
  $thr->kill('KILL')->detach();

Here's
 another simplistic example that illustrates the use of thread
signalling in conjunction with a semaphore to provide rudimentary I<suspend>

and I<resume> capabilities:

```
  use threads;
  use Thread::Semaphore;

  sub thr_func
  {
     my $sema = shift;

     # Thread 'suspend/resume' signal handler
     $SIG{'STOP'} = sub {
        $sema->down();      # Thread suspended
        $sema->up();        # Thread resumes
     };

     ...
  }

  # Create a semaphore and pass it to a thread
  my $sema = Thread::Semaphore->new();
  my $thr = threads->create('thr_func', $sema);

  # Suspend the thread
  $sema->down();
  $thr->kill('STOP');

  ...

  # Allow the thread to continue
  $sema->up();
```

CAVEAT: The thread signalling capability provided by this module does not
actually send signals via the OS. It I<emulates> signals at the Perl-level
such that signal handlers are called in the appropriate thread. For example,
sending C<$thr-E<gt>kill('STOP')>
 does not actually suspend a thread (or the
whole process), but does cause a C<$SIG{'STOP'}> handler to be called in that
thread (as illustrated above).

As such, signals that would normally not be appropriate to use in the
C<kill()> command (e.g., C<kill('KILL', $$)>) are okay to use with the
C<-E<gt>kill()> method (again, as illustrated above).

Correspondingly, sending a signal to a thread does not disrupt the operation
the thread is currently working on: The signal will be acted upon after the
current operation has completed. For instance, if the thread is I<stuck> on
an I/O call, sending it a signal will not cause the I/O call to be interrupted
such that the signal is acted up immediately.

Sending a signal to a terminated/finished thread is ignored.

=head1 WARNINGS

=over 4

=item Perl exited with active threads:

If the program exits without all threads having either been joined or
detached, then this warning will be issued.

NOTE: If the I<main> thread
 exits, then this warning cannot be suppressed
using C<no warnings 'threads';> as suggested below.

=item Thread creation failed: pthread_create returned #

See the appropriate I<man> page for C<pthread_create> to determine the actual
cause for the failure.

=item Thread # terminated abnormally: ...

A thread terminated in some manner other than just returning from its entry
point function, or by using C<threads-E<gt>exit()>. For example, the thread
may have terminated because of an error, or by using C<die>.

=item Using minimum thread stack size of #

Some platforms have a minimum thread stack size. Trying to set the stack size
below this value will result in the above warning, and the stack size will be
set to the minimum.

=item Thread creation failed: pthread_attr_setstacksize(I<SIZE>) returned 22

The specified I<SIZE> exceeds the system's maximum stack size. Use a smaller
value for the stack size.

=back

If needed, thread warnings can be suppressed by using:

  no warnings
'threads';

in the appropriate scope.

=head1 ERRORS

=over 4

=item This Perl not built to support threads

The particular copy of Perl that you're trying to use was not built using the C<useithreads> configuration option.

Having threads support requires all of Perl and all of the XS modules in the Perl installation to be rebuilt; it is not just a question of adding the L<threads> module (i.e., threaded and non-threaded Perls are binary incompatible).

=item Cannot change stack size of an existing thread

The stack size of currently extant threads cannot be changed, therefore, the following results in the above error:

```
  $thr->set_stack_size($size);
```

=item Cannot signal threads without safe signals

Safe signals must be in effect to use the C<-E<gt>kill()> signalling method. See L</"Unsafe signals"> for more details.

=item Unrecognized signal name: ...

The particular copy of Perl that you're trying to use does not support the specified signal being used in a C<-E<gt>kill()> call.

=back

=head1
BUGS AND LIMITATIONS

Before you consider posting a bug report, please consult, and possibly post a message to the discussion forum to see if what you've encountered is a known problem.

=over

=item Thread-safe modules

See L<perlmod/"Making your module threadsafe"> when creating modules that may be used in threaded applications, especially if those modules use non-Perl data, or XS code.

=item Using non-thread-safe modules

Unfortunately, you may encounter Perl modules that are not I<thread-safe>.
For example, they may crash the Perl interpreter during execution, or may dump
core on termination. Depending on the module and the requirements of your
application, it may be possible to work around such difficulties.

If the module will only be used inside a thread, you can try loading the
module from inside the thread entry point function using C<require> (and
C<import> if needed):

```
  sub thr_func
  {
     require Unsafe::Module
     # Unsafe::Module->import(...);

      ....
  }
```

If the module is needed inside the I<main> thread, try modifying your
application so that the module is loaded (again using C<require> and
C<-E<gt>import()>) after any threads are started, and in such a way that no
other threads are started afterwards.

If the above does not work, or is not adequate for your application, then file
a bug report on L<http://rt.cpan.org/Public/> against the problematic module.

=item Memory consumption

On most systems, frequent and continual creation and destruction of threads
can lead to ever-increasing growth in the memory footprint of the Perl
interpreter. While it is simple to just launch threads and then
C<-E<gt>join()> or C<-E<gt>detach()> them, for long-lived applications, it is
better to maintain a pool of threads, and to reuse them for the work needed,
using L<queues|Thread::Queue> to notify threads of pending work. The CPAN
distribution of this module contains a simple example
(F<examples/pool_reuse.pl>) illustrating
 the creation, use and monitoring of a
pool of I<reusable> threads.

=item Current working directory

On all platforms except MSWin32, the setting for the current working directory
is shared among all threads such that changing it in one thread (e.g., using
C<chdir()>) will affect all the threads in the application.

On MSWin32, each thread maintains its own the current working directory
setting.

=item Environment variables

Currently, on all platforms except MSWin32, all I<system> calls (e.g., using C<system()> or back-ticks) made from threads use the environment variable settings from the I<main> thread. In other words, changes made to C<%ENV> in a thread will not be visible in I<system> calls made by that thread.

To work around this, set environment variables as part of the I<system> call. For example:

```
  my $msg = 'hello';
  system("FOO=$msg; echo \$FOO");   # Outputs 'hello' to STDOUT
```

On MSWin32, each thread maintains its own set of environment variables.

=item Catching signals

Signals
 are I<caught> by the main thread (thread ID = 0) of a script.
Therefore, setting up signal handlers in threads for purposes other than L</"THREAD SIGNALLING"> as documented above will not accomplish what is intended.

This is especially true if trying to catch C<SIGALRM> in a thread. To handle alarms in threads, set up a signal handler in the main thread, and then use L</"THREAD SIGNALLING"> to relay the signal to the thread:

```
 # Create thread with a task that may time out
 my $thr = threads->create(sub {
    threads->yield();
    eval {
       $SIG{ALRM} = sub { die("Timeout\n"); };
       alarm(10);
       ...  # Do work here
       alarm(0);
    };
    if ($@ =~ /Timeout/) {
       warn("Task in thread timed out\n");
    }
 };

 # Set signal handler to relay SIGALRM to thread
 $SIG{ALRM} = sub { $thr->kill('ALRM') };

 ... # Main thread continues working
```

=item Parent-child threads

On some platforms, it might not be possible to destroy
 I<parent> threads while
there are still existing I<child> threads.

=item Unsafe signals

Since Perl 5.8.0, signals have been made safer in Perl by postponing their
handling until the interpreter is in a I<safe> state. See
L<perl58delta/"Safe Signals"> and L<perlipc/"Deferred Signals (Safe Signals)">
for more details.

Safe signals is the default behavior, and the old, immediate, unsafe
signalling behavior is only in effect in the following situations:

=over 4

=item * Perl has been built with C<PERL_OLD_SIGNALS> (see C<perl -V>).

=item * The environment variable C<PERL_SIGNALS> is set to C<unsafe>
(see L<perlrun/"PERL_SIGNALS">).

=item * The module L<Perl::Unsafe::Signals> is used.

=back

If unsafe signals is in effect, then signal handling is not thread-safe, and
the C<-E<gt>kill()> signalling method cannot be used.

=item Identity of objects returned from threads

When a value is returned from a thread through a C<join> operation,
the value and everything that it references is
 copied across to the
joining thread, in much the same way that values are copied upon thread
creation. This works fine for most kinds of value, including arrays,
hashes, and subroutines. The copying recurses through array elements,
reference scalars, variables closed over by subroutines, and other kinds
of reference.

However, everything referenced by the returned value is a fresh copy in
the joining thread, even if a returned object had in the child thread
been a copy of something that previously existed in the parent thread.
After joining, the parent will therefore have a duplicate of each such
object. This sometimes matters, especially if the object gets mutated;
this can especially matter for private data to which a returned subroutine
provides access.

=item Returning blessed objects from threads

Returning blessed objects from threads does not work. Depending on the classes
involved, you may be able to work around this by returning a serialized
version of the object (e.g.,
 using L<Data::Dumper> or L<Storable>), and then
reconstituting it in the joining thread. If you're using Perl 5.10.0 or
later, and if the class supports L<shared objects|threads::shared/"OBJECTS">,
you can pass them via L<shared queues|Thread::Queue>.

=item END blocks in threads

It is possible to add L<END blocks|perlmod/"BEGIN, UNITCHECK, CHECK, INIT and
END"> to threads by using L<require|perlfunc/"require VERSION"> or
L<eval|perlfunc/"eval EXPR"> with the appropriate code. These C<END> blocks
will then be executed when the thread's interpreter is destroyed (i.e., either
during a C<-E<gt>join()> call, or at program termination).

However, calling any L<threads> methods in such an C<END> block will most
likely I<fail> (e.g., the application may hang, or generate an error) due to
mutexes that are needed to control functionality within the L<threads> module.

For this reason, the use of C<END> blocks in threads is B<strongly>
discouraged.

=item Open directory handles

In perl 5.14
 and higher, on systems other than Windows that do
not support the C<fchdir> C function, directory handles (see
L<opendir|perlfunc/"opendir DIRHANDLE,EXPR">) will not be copied to new
threads. You can use the C<d_fchdir> variable in L<Config.pm|Config> to
determine whether your system supports it.

In prior perl versions, spawning threads with open directory handles would
crash the interpreter.
L<[perl #75154]|http://rt.perl.org/rt3/Public/Bug/Display.html?id=75154>

=item Detached threads and global destruction

If the main thread exits while there are detached threads which are still
running, then Perl's global destruction phase is not executed because
otherwise certain global structures that control the operation of threads and
that are allocated in the main thread's memory may get destroyed before the
detached thread is destroyed.

If you are using any code that requires the execution of the global
destruction phase for clean up (e.g., removing temp files), then do not use
detached

threads, but rather join all threads before exiting the program.

=item Perl Bugs and the CPAN Version of L<threads>

Support for threads extends beyond the code in this module (i.e.,
F<threads.pm> and F<threads.xs>), and into the Perl interpreter itself. Older
versions of Perl contain bugs that may manifest themselves despite using the
latest version of L<threads> from CPAN. There is no workaround for this other
than upgrading to the latest version of Perl.

Even with the latest version of Perl, it is known that certain constructs
with threads may result in warning messages concerning leaked scalars or
unreferenced scalars. However, such warnings are harmless, and may safely be
ignored.

You can search for L<threads> related bug reports at
L<http://rt.cpan.org/Public/>. If needed submit any new bugs, problems,
patches, etc. to: L<http://rt.cpan.org/Public/Dist/Display.html?Name=threads>

=back

=head1 REQUIREMENTS

Perl 5.8.0 or later

=head1 SEE ALSO

threads on MetaCPAN:
L<https://metacpan.org/release/threads>

Code
repository for CPAN distribution:
L<https://github.com/Dual-Life/threads>

L<threads::shared>, L<perlthrtut>

L<http://www.perl.com/pub/a/2002/06/11/threads.html> and
L<http://www.perl.com/pub/a/2002/09/04/threads.html>

Perl threads mailing list:
L<http://lists.perl.org/list/ithreads.html>

Stack size discussion:
L<http://www.perlmonks.org/?node_id=532956>

Sample code in the I<examples> directory of this distribution on CPAN.

=head1 AUTHOR

Artur Bergman E<lt>sky AT crucially DOT netE<gt>

CPAN version produced by Jerry D. Hedden <jdhedden AT cpan DOT org>

=head1 LICENSE

threads is released under the same license as Perl.

=head1 ACKNOWLEDGEMENTS

Richard Soderberg E<lt>perl AT crystalflame DOT netE<gt> -
Helping me out tons, trying to find reasons for races and other weird bugs!

Simon Cozens E<lt>simon AT brecon DOT co DOT ukE<gt> -
Being there to answer zillions of annoying questions

Rocco Caputo E<lt>troc AT netrus DOT netE<gt>

Vipul Ved
 Prakash E<lt>mail AT vipul DOT netE<gt> -
Helping with debugging

Dean Arnold E<lt>darnold AT presicient DOT comE<gt> -
Stack size API

=cut

Found in path(s):
* /perl-threads-2.21-2.el8.src.rpm-cosi-expand-archive-zEPvysjP/threads-2.21.tar.gz-cosi-expand-archive-LaI5P9yQ/threads-2.21/lib/threads.pm
No license file was found, but licenses were detected in source scan.

---
abstract: 'Perl interpreter-based threads'
author:
 - 'Artur Bergman, Jerry D. Hedden <jdhedden AT cpan DOT org>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: threads

no_index:
 directory:
  - t
  - inc
requires:
 Carp: '0'
 Config: '0'
 ExtUtils::testlib: '0'
 Hash::Util: '0'
 IO::File: '0'
 Test::More: '0'
 XSLoader: '0'
 overload: '0'
 strict: '0'
 warnings: '0'
version: '2.21'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /perl-threads-2.21-2.el8.src.rpm-cosi-expand-archive-zEPvysjP/threads-2.21.tar.gz-cosi-expand-archive-LaI5P9yQ/threads-2.21/META.yml
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Found in path(s):
* /perl-threads-2.21-2.el8.src.rpm-cosi-expand-archive-zEPvysjP/threads-2.21.tar.gz-cosi-expand-archive-LaI5P9yQ/threads-2.21/examples/pool_reuse.pl
* /perl-threads-2.21-2.el8.src.rpm-cosi-expand-archive-zEPvysjP/threads-2.21.tar.gz-cosi-expand-archive-LaI5P9yQ/threads-2.21/examples/pool.pl

1.73 perl-pod-perldoc 3.28-396.el8

1.73.1 Available under license :

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

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1.74 perl-scalar-list-utils 1.49-2.el8

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Found in path(s):
* /perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-1.49/lib/Sub/Util.pm
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---
abstract: 'Common Scalar and List utility subroutines'
author:
 - 'Graham Barr <gbarr@cpan.org>'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'

name: Scalar-List-Utils
no_index:
 directory:
  - t
  - inc
requires:
 Test::More: '0'
 perl: '5.006'
resources:
 bugtracker: https://rt.cpan.org/Public/Dist/Display.html?Name=Scalar-List-Utils
 repository: https://github.com/Scalar-List-Utils/Scalar-List-Utils.git
version: '1.49'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-1.49/META.yml
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/*
----

  ppport.h -- Perl/Pollution/Portability Version 3.19_02

  Automatically created by Devel::PPPort running under perl 5.010000.

  Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
  includes in parts/inc/ instead.

  Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.19_02

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality from
ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.11.5.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is

given, a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagially add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version
5.003. You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This
 reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible

across
 differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

  perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions
 or variables will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

  #define NEED_function
  #define NEED_variable

For a global function or variable (used in multiple source files),
use:

  #define NEED_function_GLOBAL

```
#define NEED_variable_GLOBAL
```

Note that you mustn't have more than one global request for the
same function or variable in your project.

```
Function / Variable      Static Request            Global Request
-----------------------------------------------------------------------------------------
PL_parser                NEED_PL_parser            NEED_PL_parser_GLOBAL
PL_signals               NEED_PL_signals           NEED_PL_signals_GLOBAL
eval_pv()                NEED_eval_pv
  NEED_eval_pv_GLOBAL
grok_bin()               NEED_grok_bin             NEED_grok_bin_GLOBAL
grok_hex()               NEED_grok_hex             NEED_grok_hex_GLOBAL
grok_number()            NEED_grok_number          NEED_grok_number_GLOBAL
grok_numeric_radix()     NEED_grok_numeric_radix   NEED_grok_numeric_radix_GLOBAL
grok_oct()               NEED_grok_oct             NEED_grok_oct_GLOBAL
load_module()            NEED_load_module          NEED_load_module_GLOBAL
my_snprintf()            NEED_my_snprintf          NEED_my_snprintf_GLOBAL
my_sprintf()             NEED_my_sprintf           NEED_my_sprintf_GLOBAL
my_strlcat()             NEED_my_strlcat           NEED_my_strlcat_GLOBAL
my_strlcpy()             NEED_my_strlcpy           NEED_my_strlcpy_GLOBAL
newCONSTSUB()            NEED_newCONSTSUB          NEED_newCONSTSUB_GLOBAL
newRV_noinc()            NEED_newRV_noinc          NEED_newRV_noinc_GLOBAL
 newSV_type()            NEED_newSV_type           NEED_newSV_type_GLOBAL
newSVpvn_flags()         NEED_newSVpvn_flags       NEED_newSVpvn_flags_GLOBAL
newSVpvn_share()         NEED_newSVpvn_share       NEED_newSVpvn_share_GLOBAL
pv_display()             NEED_pv_display           NEED_pv_display_GLOBAL
pv_escape()              NEED_pv_escape            NEED_pv_escape_GLOBAL
pv_pretty()              NEED_pv_pretty            NEED_pv_pretty_GLOBAL
sv_2pv_flags()           NEED_sv_2pv_flags         NEED_sv_2pv_flags_GLOBAL
sv_2pvbyte()             NEED_sv_2pvbyte           NEED_sv_2pvbyte_GLOBAL
sv_catpvf_mg()           NEED_sv_catpvf_mg         NEED_sv_catpvf_mg_GLOBAL
sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
sv_pvn_force_flags()     NEED_sv_pvn_force_flags   NEED_sv_pvn_force_flags_GLOBAL
sv_setpvf_mg()           NEED_sv_setpvf_mg
   NEED_sv_setpvf_mg_GLOBAL
sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
vload_module()           NEED_vload_module         NEED_vload_module_GLOBAL
vnewSVpvf()              NEED_vnewSVpvf            NEED_vnewSVpvf_GLOBAL
warner()                 NEED_warner               NEED_warner_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

```
#define DPPP_NAMESPACE MyOwnNamespace_
#include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can
be run as a Perl script to check your
source code. Simply say:

```
  perl ppport.h
```

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

```
  perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff
```

If you only want your code to be scanned without any suggestions
for changes, use:

```
  perl ppport.h --nochanges
```

You can specify a different C<diff> program or options, using
the C<--diff> option:

```
  perl ppport.h --diff='diff -C 10'
```

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

```
  perl ppport.h --copy=.new
```

To display portability information for the
C<newSVpvn> function,
use:

perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression,
you can use

perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report using the CPAN Request Tracker at L<http://rt.cpan.org/>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that
failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2010, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

```
use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.19_02;

my %opt = (
 quiet     => 0,
 diag      => 1,
 hints     => 1,
 changes   => 1,
 cplusplus => 0,
 filter    => 1,
 strip     => 0,
 version   => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/'.'*';
```

```
my
 $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt, qw(
   help quiet diag! filter! hints! changes! cplusplus strip version
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
 print "This is $0 $VERSION.\n";
 exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
 }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
 $opt{'compat-version'}
 = 5;
}

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
            ? ( $1 => {
                ($2               ? ( base     => $2 ) : ()),
                ($3               ? ( todo     => $3 ) : ()),
                (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
```

```
                } )
            : die "invalid spec: $_" } qw(
AvFILLp|5.004050||p
AvFILL|||
CLASS|||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002||p
Copy|||
CvPADLIST|||
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set|5.010001||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvSVn|5.009003||p
GvSV|||
Gv_AMupdate||5.011000|
HEf_SVKEY||5.004000|
```

HeHASH||5.004000|
HeKEY||5.004000|
HeKLEN||5.004000|
HePV||5.004000|
HeSVKEY_force||5.004000|
HeSVKEY_set||5.004000|
HeSVKEY||5.004000|
HeUTF8||5.010001|
HeVAL||5.004000|
HvNAMELEN_get|5.009003||p
HvNAME_get|5.009003||p
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LVRET|||
MARK|||
MULTICALL||5.011005|
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002||p
Move|||
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||

Nullsv|||
ORIGMARK|||
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_DUP|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SVl|||
PAD_SV|||
PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.011004||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.004000||p
PERL_INT_MAX|5.004000||p
PERL_INT_MIN|5.004000||p
PERL_LONG_MAX|5.004000||p
PERL_LONG_MIN|5.004000||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.011004||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.011004||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.007002||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.007002||p

PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.004000||p
PERL_QUAD_MIN|5.004000||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.004000||p
PERL_SHORT_MIN|5.004000||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3||5.006000|
PERL_SYS_INIT|||
PERL_SYS_TERM||5.011005|

PERL_UCHAR_MAX|5.004000||p
PERL_UCHAR_MIN|5.004000||p
PERL_UINT_MAX|5.004000||p
PERL_UINT_MIN|5.004000||p
PERL_ULONG_MAX|5.004000||p
PERL_ULONG_MIN|5.004000||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.004000||p
PERL_UQUAD_MIN|5.004000||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.004000||p
PERL_USHORT_MIN|5.004000||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.011004||p
PL_bufptr|5.011004||p
PL_compiling|5.004050||p
PL_copline|5.011004||p
PL_curcop|5.004050||p
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p
PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.011004||p
PL_expect|5.011004||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.011004||p
PL_in_my|5.011004||p
PL_keyword_plugin||5.011002|
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.011004||p
PL_lex_stuff|5.011004||p
PL_linestr|5.011004||p
PL_modglobal||5.005000|n
PL_na|5.004050||pn
PL_no_modify|5.006000||p

PL_ofsgv|||n
PL_opfreehook||5.011000|n
PL_parser|5.009005|5.009005|p
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rsfp_filters|5.004050||p
PL_rsfp|5.004050||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.011004||p
POP_MULTICALL||5.011005|
POPi|||n
POPl|||n
POPn|||n
POPpbytex||5.007001|n
POPpx||5.005030|n
POPp|||n
POPs|||n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2nat|5.009003||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK|||
PUSH_MULTICALL||5.011005|
PUSHi|||
PUSHmortal|5.009002||p
PUSHn|||
PUSHp|||
PUSHs|||
PUSHu|5.004000||p
PUTBACK|||
PerlIO_clearerr||5.007003|
PerlIO_close||5.007003|
PerlIO_context_layers||5.009004|
PerlIO_eof||5.007003|

PerlIO_error||5.007003|
PerlIO_fileno||5.007003|
PerlIO_fill||5.007003|
PerlIO_flush||5.007003|
PerlIO_get_base||5.007003|
PerlIO_get_bufsiz||5.007003|
PerlIO_get_cnt||5.007003|
PerlIO_get_ptr||5.007003|
PerlIO_read||5.007003|
PerlIO_seek||5.007003|
PerlIO_set_cnt||5.007003|
PerlIO_set_ptrcnt||5.007003|
PerlIO_setlinebuf||5.007003|
PerlIO_stderr||5.007003|
PerlIO_stdin||5.007003|
PerlIO_stdout||5.007003|
PerlIO_tell||5.007003|
PerlIO_unread||5.007003|
PerlIO_write||5.007003|
Perl_signbit||5.009005|n
PoisonFree|5.009004||p
PoisonNew|5.009004||p
PoisonWith|5.009004||p
Poison|5.008000||p
RETVAL|||n
Renewc|||
Renew|||
SAVECLEARSV|||
SAVECOMPPAD|||
SAVEPADSV|||
SAVETMPS|||
SAVE_DEFSV|5.004050||p
SPAGAIN|||
SP|||
START_EXTERN_C|5.005000||p
START_MY_CXT|5.007003||p
STMT_END|||p
STMT_START|||p
STR_WITH_LEN|5.009003||p
ST|||
SV_CONST_RETURN|5.009003||p
SV_COW_DROP_PV|5.008001||p
SV_COW_SHARED_HASH_KEYS|5.009005||p
SV_GMAGIC|5.007002||p
SV_HAS_TRAILING_NUL|5.009004||p
SV_IMMEDIATE_UNREF|5.007001||p
SV_MUTABLE_RETURN|5.009003||p
SV_NOSTEAL|5.009002||p

SV_SMAGIC|5.009003||p
SV_UTF8_NO_ENCODING|5.008001||p
SVfARG|5.009005||p
SVf_UTF8|5.006000||p
SVf|5.006000||p
SVt_IV|||
SVt_NV|||
SVt_PVAV|||
SVt_PVCV|||
SVt_PVHV|||
SVt_PVMG|||
SVt_PV|||
Safefree|||
Slab_Alloc|||
Slab_Free|||
Slab_to_rw|||
StructCopy|||
SvCUR_set|||
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sv_uv|5.005000||p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn||5.004000|
sv_vcatpvf|5.006000|5.004000|p

sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn||5.004000|
sv_vsetpvf|5.006000|5.004000|p
sv_xmlpeek|||
svtype|||
swallow_bom|||
swash_fetch||5.007002|
swash_get|||
swash_init||5.006000|
sys_init3||5.010000|n
sys_init||5.010000|n
sys_intern_clear|||
sys_intern_dup|||
sys_intern_init|||
sys_term||5.010000|n
taint_env|||
taint_proper|||
tmps_grow||5.006000|
toLOWER|||
toUPPER|||
to_byte_substr|||
to_uni_fold||5.007003|
to_uni_lower_lc||5.006000|
to_uni_lower||5.007003|
to_uni_title_lc||5.006000|
to_uni_title||5.007003|
to_uni_upper_lc||5.006000|
to_uni_upper||5.007003|
to_utf8_case||5.007003|
to_utf8_fold||5.007003|
to_utf8_lower||5.007003|
to_utf8_substr|||
to_utf8_title||5.007003|
to_utf8_upper||5.007003|
token_free|||
token_getmad|||
tokenize_use|||
tokeq|||
tokereport|||
too_few_arguments|||
too_many_arguments|||
uiv_2buf|||n
unlnk|||
unpack_rec|||
unpack_str||5.007003|
unpackstring||5.008001|
unshare_hek_or_pvn|||
unshare_hek|||

unsharepvn||5.004000|
unwind_handler_stack|||
update_debugger_info|||
upg_version||5.009005|
usage|||
utf16_textfilter|||
utf16_to_utf8_reversed||5.006001|
utf16_to_utf8||5.006001|
utf8_distance||5.006000|
utf8_hop||5.006000|
utf8_length||5.007001|
utf8_mg_pos_cache_update|||
utf8_to_bytes||5.006001|
utf8_to_uvchr||5.007001|
utf8_to_uvuni||5.007001|
utf8n_to_uvchr|||
utf8n_to_uvuni||5.007001|
utilize|||
uvchr_to_utf8_flags||5.007003|
uvchr_to_utf8|||
uvuni_to_utf8_flags||5.007003|
uvuni_to_utf8||5.007001|
validate_suid|||
varname|||
vcmp||5.009000|
vcroak||5.006000|
vdeb||5.007003|
vdie_common|||
vdie_croak_common|||
vdie|||
vform||5.006000|
visit|||
vivify_defelem|||
vivify_ref|||
vload_module|5.006000||p
vmess||5.006000|
vnewSVpvf|5.006000|5.004000|p
vnormal||5.009002|
vnumify||5.009000|
vstringify||5.009000|
vverify||5.009003|
vwarner||5.006000|
vwarn||5.006000|
wait4pid|||
warn_nocontext|||vn
warner_nocontext|||vn
warner|5.006000|5.004000|pv
warn|||v

```
watch|||
whichsig|||
write_no_mem|||
write_to_stderr|||
xmldump_all_perl|||
xmldump_all|||
xmldump_attr|||
xmldump_eval|||
xmldump_form|||
xmldump_indent|||v
xmldump_packsubs_perl|||
xmldump_packsubs|||
xmldump_sub_perl|||
xmldump_sub|||
xmldump_vindent|||
yyerror|||
yylex|||
yyparse|||
yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{todo};
   print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define, $function);

sub find_api
{
 my $code = shift;
 $code =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | "[^"\\]*(?:\\.[^"\\]*)*"
 | '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
 grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>)
```

```
{
if ($hint) {
  my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
  if (m{^\s*\*\s(.*?)\s*$}) {
    for (@{$hint->[1]}) {
      $h->{$_} ||= '';  # suppress warning with older perls
      $h->{$_} .= "$1\n";
    }
  }
  else { undef $hint }
}

$hint = [$1, [split /,?\s+/, $2]]
    if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

if ($define) {
  if ($define->[1] =~ /\\$/) {
    $define->[1] .= $_;
  }
  else {
    if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
      my @n = find_api($define->[1]);
      push @{$depends{$define->[0]}}, @n if @n
    }
    undef $define;
  }
}

$define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

if ($function) {
  if (/^}/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
}


$function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

$replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
$replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
```

```
 $replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
 $replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

 if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
   my @deps = map { s/\s+//g; $_ } split /,/, $3;
   my $d;
   for $d (map { s/\s+//g; $_ } split /,/, $1) {
     push @{$depends{$d}}, @deps;
   }
 }

 $need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

for (values %depends) {
 my %s;
 $_ = [sort grep !$s{$_}++, @$_];
}

if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $f =~ /$match/;
   print "\n=== $f ===\n\n";
    my $info = 0;
   if ($API{$f}{base} || $API{$f}{todo}) {
     my $base = format_version($API{$f}{base} || $API{$f}{todo});
     print "Supported at least starting from perl-$base.\n";
     $info++;
   }
   if ($API{$f}{provided}) {
     my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
     print "Support by $ppport provided back to perl-$todo.\n";
     print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
     print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
     print "\n$hints{$f}" if exists $hints{$f};
     print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
     $info++;
   }
   print "No portability information available.\n" unless $info;
   $count++;
 }
 $count or print "Found no API matching '$opt{'api-info'}'.";
 print "\n";
 exit 0;
}
```

```
if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{provided};
    my @flags;
   push @flags, 'explicit' if exists $need{$f};
   push @flags, 'depend'   if exists $depends{$f};
   push @flags, 'hint'     if exists $hints{$f};
   push @flags, 'warning'  if exists $warnings{$f};
   my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
   print "$f$flags\n";
 }
 exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
 my %seen;
 for (@ARGV) {
   if (-e) {
     if (-f) {
       push @files, $_ unless $seen{$_}++;
     }
     else { warn "'$_' is not a file.\n" }
   }
   else {
     my @new = grep { -f } glob $_
         or warn "'$_' does not exist.\n";
     push @files, grep { !$seen{$_}++ } @new;
   }
 }
}
else {
 eval {
   require File::Find;
   File::Find::find(sub {
     $File::Find::name =~ /($srcext)$/i
         and push @files, $File::Find::name;
   }, '.');
 };
 if ($@) {
   @files = map { glob "*$_" } @srcext;
 }
}
```

```
if
 (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
   my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
   push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
   warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
 }
 @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
 unless (open IN, "<$filename") {
   warn "Unable to read from $filename: $!\n";
   next;
 }

 info("Scanning $filename ...");

 my $c = do { local $/; <IN> };
 close IN;

 my %file = (orig => $c, changes => 0);

 # Temporarily remove C/XS comments and strings from the code
 my @ccom;

 $c =~ s{
   ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
   | ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]*
 )
 | ( ^$HS*\#[^\r\n]*
   | "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*'
   | / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
 }{ defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;
```

```
$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for
(@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
          $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}{$func}}, $filename;
```

```
  }
 }

 $files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
 if (@{$global{needs}{$need}} > 1) {
  my @targets = @{$global{needs}{$need}};
  my @t
 = grep $files{$_}{needed_global}{$need}, @targets;
  @targets = @t if @t;
  @t = grep /\.xs$/i, @targets;
  @targets = @t if @t;
  my $target = shift @targets;
  $files{$target}{needs}{$need} = 'global';
  for (@{$global{needs}{$need}}) {
   $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
  }
 }
}

for $filename (@files) {
 exists $files{$filename} or next;

 info("=== Analyzing $filename ===");

 my %file = %{$files{$filename}};
 my $func;
 my $c = $file{code};
 my $warnings = 0;

 for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
   unless ($API{$func}{nothxarg}) {
    my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
                  { $1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
    if ($changes) {
     warning("Doesn't pass interpreter argument aTHX to Perl_$func");
     $file{changes} += $changes;
    }
   }
  }
  else {
   warning("Uses Perl_$func instead
```

```
of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
                          {$func$1(}g);
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable below perl ",
          format_version($API{$func}{todo}), ", even with '$ppport'\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message
= "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = '';
```

```
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
   }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = '';

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = '';
    $file{changes}++;
  }

  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
```

```
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
                   || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                    || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                   || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
     if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
```

```
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
          goto fallback;
        }
      }
      mydiff(\*PATCH, $filename, $c);
    }
    else {
fallback:
      info("Suggested changes:");
      mydiff(\*STDOUT, $filename, $c);
    }
  }
  else {
    my $s = $file{changes}
 == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
  }
 }
 else {
  info("Looks good");
 }
}

close PATCH if $patch_opened;

exit 0;


sub try_use { eval "use @_;"; return $@ eq '' }

sub mydiff
{
 local *F = shift;
```

```
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
   $diff = run_diff($opt{diff}, $file, $str);
 }

 if (!defined $diff and try_use('Text::Diff')) {
   $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
   $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
   $diff = run_diff('diff -u', $file, $str);
 }

 if (!defined $diff) {
   $diff = run_diff('diff', $file, $str);
 }

 if (!defined $diff) {
   error("Cannot generate a diff. Please install Text::Diff or use --copy.");
   return;
 }

 print F $diff;
}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dpppтemp';
 my $suf = 'aaa';
 my $diff = '';
 local *F;

 while (-e "$tmp.$suf") { $suf++
 }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
   print F $str;
   close F;

   if (open F, "$prog $file $tmp |") {
```

```
    while (<F>) {
      s/\Q$tmp\E/$file.patched/;
      $diff .= $_;
    }
    close F;
    unlink $tmp;
    return $diff;
  }

  unlink $tmp;
 }
 else {
  error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
}

sub rec_depend
{
 my($func, $seen) = @_;
 return () unless exists $depends{$func};
 $seen = {%{$seen||{}}};
 return () if $seen->{$func}++;
 my %s;
 grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
 my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
  return ($1, $2, $3);
 }
 elsif ($ver !~ /^\d+\.[\d_]+$/) {
  die "cannot parse version '$ver'\n";
 }

 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
```

```
  if ($s % 10) {
    die "cannot parse
 version '$ver'\n";
  }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
  if ($s % 10) {
    die "invalid version '$ver'\n";
  }
  $s /= 10;

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "_%02d", $s;

  return $ver;
 }

 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
 $opt{quiet} and return;
 print @_, "\n";
}

sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
```

```
 $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub hint
{
 $opt{quiet} and return;
 my $func = shift;
 my $rv = 0;
 if (exists $warnings{$func} && !$given_warnings{$func}++) {
   my $warn = $warnings{$func};
   $warn =~ s!^!*** !mg;
   print "*** WARNING: $func\n", $warn;
   $rv++;
  }
 if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
   my $hint = $hints{$func};
   $hint =~ s/^/   /mg;
   print "   --- hint for $func ---\n", $hint;
 }
 $rv;
}

sub usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}
```

```
sub strip
{
 my $self = do { local(@ARGV,$/)=($0); <> };
 my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
 $copy =~ s/^(?=\S+)/    /gms;
 $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
 $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0] eq '--unstrip') {
 eval { require Devel::PPPort };
 \$@ and die "Cannot require Devel::PPPort, please install.\\n";
 if (eval \$Devel::PPPort::VERSION < $VERSION) {
   die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
      . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
     . "Please install a newer version, or --unstrip will not work.\\n";
 }
 Devel::PPPort::WriteFile(\$0);
 exit 0;
}
print <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

 \$^X \$0 --unstrip

END
/ms;
 my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
 $c =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | ( "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*' )
 | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
 $c =~ s!\s+$!!mg;
 $c =~ s!^$LF!!mg;
 $c =~ s!^\s*#\s*!#!mg;
 $c =~ s!^\s+!!mg;

 open OUT, ">$0" or die "cannot strip $0: $!\n";
 print OUT "$pl$c\n";

 exit 0;
}

__DATA__
*/
```

Found in path(s):
* /perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-1.49/ppport.h
No license file was found, but licenses were detected in source scan.

=head1 NAME

List::Util::XS - Indicate if List::Util was compiled with a C compiler

=head1 SYNOPSIS

  use List::Util::XS 1.20;

=head1 DESCRIPTION

C<List::Util::XS> can be used as a dependency to ensure List::Util was
installed using a C compiler and that the XS version is installed.

During installation C<$List::Util::XS::VERSION> will be set to
C<undef> if the XS was not compiled.

Starting with release 1.23_03, Scalar-List-Util is B<always> using
the XS implementation, but for backwards compatibility, we still
ship the C<List::Util::XS> module which just loads C<List::Util>.

=head1 SEE ALSO

L<Scalar::Util>, L<List::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

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This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=cut

Found in path(s):
* /perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-1.49/lib/List/Util/XS.pm
No license file was found, but licenses were detected in source scan.

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*/

Found in path(s):
* /perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-1.49/ListUtil.xs
No license file was found, but licenses were detected in source scan.

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modify it under the same terms as Perl itself.
=head1 NAME

Scalar::Util - A selection of general-utility scalar subroutines

=head1 SYNOPSIS

```
  use Scalar::Util qw(blessed dualvar isdual readonly refaddr reftype
                      tainted weaken isweak isvstring looks_like_number
                      set_prototype);
                      # and other useful utils appearing below
```

=head1 DESCRIPTION

C<Scalar::Util> contains a selection of subroutines that people have expressed
would be nice to have in the perl core, but the usage would not really be high
enough to warrant the use of a keyword, and the size would be so small that
being individual extensions would be wasteful.

By default C<Scalar::Util> does not export any subroutines.

=cut

=head1 FUNCTIONS FOR
 REFERENCES

The following functions all perform some useful activity on reference values.

=head2 blessed

```
  my $pkg = blessed( $ref );
```

If C<$ref> is a blessed reference, the name of the package that it is blessed
into is returned. Otherwise C<undef> is returned.

```
  $scalar = "foo";
  $class  = blessed $scalar;           # undef

  $ref    = [];
  $class  = blessed $ref;              # undef
```

```
  $obj    = bless [], "Foo";
  $class  = blessed $obj;             # "Foo"
```

Take care when using this function simply as a truth test (such as in C<if(blessed $ref)...>) because the package name C<"0"> is defined yet false.

=head2 refaddr

```
  my $addr = refaddr( $ref );
```

If C<$ref> is reference, the internal memory address of the referenced value is returned as a plain integer. Otherwise C<undef> is returned.

```
  $addr = refaddr "string";          # undef
  $addr = refaddr \$var;             # eg 12345678
  $addr = refaddr [];                # eg 23456784

  $obj  = bless
{}, "Foo";
  $addr = refaddr $obj;              # eg 88123488
```

=head2 reftype

```
  my $type = reftype( $ref );
```

If C<$ref> is a reference, the basic Perl type of the variable referenced is returned as a plain string (such as C<ARRAY> or C<HASH>). Otherwise C<undef> is returned.

```
  $type = reftype "string";          # undef
  $type = reftype \$var;             # SCALAR
  $type = reftype [];                # ARRAY

  $obj  = bless {}, "Foo";
  $type = reftype $obj;              # HASH
```

=head2 weaken

```
  weaken( $ref );
```

The lvalue C<$ref> will be turned into a weak reference. This means that it will not hold a reference count on the object it references. Also, when the reference count on that object reaches zero, the reference will be set to undef. This function mutates the lvalue passed as its argument and returns no value.

This is useful for keeping copies of references, but you don't want to prevent the object being DESTROY-ed at its usual time.

```
{
  my $var;
   $ref = \$var;
  weaken($ref);                 # Make $ref a weak reference
}
# $ref is now undef
```

Note that if you take a copy of a scalar with a weakened reference, the copy will be a strong reference.

```
  my $var;
  my $foo = \$var;
  weaken($foo);                 # Make $foo a weak reference
  my $bar = $foo;               # $bar is now a strong reference
```

This may be less obvious in other situations, such as C<grep()>, for instance when grepping through a list of weakened references to objects that may have been destroyed already:

```
  @object = grep { defined } @object;
```

This will indeed remove all references to destroyed objects, but the remaining references to objects will be strong, causing the remaining objects to never be destroyed because there is now always a strong reference to them in the @object array.

=head2 unweaken

```
  unweaken( $ref );
```

I<Since version 1.36.>

The lvalue C<REF> will be turned from a weak reference back
 into a normal
(strong) reference again. This function mutates the lvalue passed as its argument and returns no value. This undoes the action performed by L</weaken>.

This function is slightly neater and more convenient than the otherwise-equivalent code

```
  my $tmp = $REF;
  undef $REF;
  $REF = $tmp;
```

(because in particular, simply assigning a weak reference back to itself does not work to unweaken it; C<$REF = $REF> does not work).

=head2 isweak

```
  my $weak = isweak( $ref );
```

Returns true if C<$ref> is a weak reference.

```
  $ref  = \$foo;
  $weak = isweak($ref);             # false
  weaken($ref);
  $weak = isweak($ref);             # true
```

B<NOTE>: Copying a weak reference creates a normal, strong, reference.

```
  $copy = $ref;
  $weak = isweak($copy);            # false
```

=head1 OTHER FUNCTIONS

=head2 dualvar

```
  my $var = dualvar( $num, $string );
```

Returns a scalar that has the value C<$num> in a numeric context and the value C<$string> in a string context.

```
   $foo = dualvar 10, "Hello";
  $num = $foo + 2;                  # 12
  $str = $foo . " world";           # Hello world
```

=head2 isdual

```
  my $dual = isdual( $var );
```

I<Since version 1.26.>

If C<$var> is a scalar that has both numeric and string values, the result is true.

```
  $foo = dualvar 86, "Nix";
  $dual = isdual($foo);             # true
```

Note that a scalar can be made to have both string and numeric content through numeric operations:

```
  $foo = "10";
  $dual = isdual($foo);             # false
  $bar = $foo + 0;
```

```
  $dual = isdual($foo);              # true
```

Note that although C<$!> appears to be a dual-valued variable, it is
actually implemented as a magical variable inside the interpreter:

```
  $! = 1;
  print("$!\n");                    # "Operation not permitted"
  $dual = isdual($!);               # false
```

You can capture its numeric and string content using:

```
  $err = dualvar $!, $!;
  $dual = isdual($err);             # true
```

=head2
isvstring

```
  my $vstring = isvstring( $var );
```

If C<$var> is a scalar which was coded as a vstring, the result is true.

```
  $vs   = v49.46.48;
  $fmt  = isvstring($vs) ? "%vd" : "%s"; #true
  printf($fmt,$vs);
```

=head2 looks_like_number

```
  my $isnum = looks_like_number( $var );
```

Returns true if perl thinks C<$var> is a number. See
L<perlapi/looks_like_number>.

=head2 openhandle

```
  my $fh = openhandle( $fh );
```

Returns C<$fh> itself if C<$fh> may be used as a filehandle and is open, or is
is a tied handle. Otherwise C<undef> is returned.

```
  $fh = openhandle(*STDIN);         # \*STDIN
  $fh = openhandle(\*STDIN);        # \*STDIN
  $fh = openhandle(*NOTOPEN);       # undef
  $fh = openhandle("scalar");       # undef
```

=head2 readonly

```
  my $ro = readonly( $var );
```

Returns true if C<$var> is readonly.

```
  sub foo { readonly($_[0]) }

  $readonly = foo($bar);            # false
  $readonly = foo(0);               # true
```

=head2 set_prototype

```
  my
$code = set_prototype( $code, $prototype );
```

Sets the prototype of the function given by the C<$code> reference, or deletes
it if C<$prototype> is C<undef>. Returns the C<$code> reference itself.

```
  set_prototype \&foo, '$$';
```

=head2 tainted

```
  my $t = tainted( $var );
```

Return true if C<$var> is tainted.

```
  $taint = tainted("constant");      # false
  $taint = tainted($ENV{PWD});       # true if running under -T
```

=head1 DIAGNOSTICS

Module use may give one of the following errors during import.

=over

=item Weak references are not implemented in the version of perl

The version of perl that you are using does not implement weak references, to
use L</isweak> or L</weaken> you will need to use a newer release of perl.

=item Vstrings are not implemented in the version of perl

The version of perl that you are using does not implement Vstrings, to use
L</isvstring> you will need to use a newer release of perl.

=back

=head1 KNOWN BUGS

There is a bug in perl5.6.0 with UV's that

are >= 1<<31. This will
show up as tests 8 and 9 of dualvar.t failing

=head1 SEE ALSO

L<List::Util>

=head1 COPYRIGHT

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under the same terms as Perl itself.

Additionally L</weaken> and L</isweak> which are

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under the same terms as perl itself.

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=cut

Found in path(s):
* /perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-1.49/lib/Scalar/Util.pm
No license file was found, but licenses were detected in source scan.

This distribution is a replacement for the builtin distribution.

This package contains a selection of subroutines that people have
expressed would be nice to have in the perl core, but the usage would not
really be high enough to warrant the use of a keyword, and the size so
small such that being individual extensions would be wasteful.

After unpacking the distribution, to install this module type

    perl Makefile.PL
    make
    make test
    make install

KNOWN BUGS

There is a bug in perl5.6.0 with UV's that are >= 1<<31. This will

show up as tests 8 and 9 of dualvar.t failing

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Found in path(s):
* /perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-1.49/README
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modify it under the same terms as Perl itself.
=head1 KNOWN BUGS

=head2 RT #95409

L<https://rt.cpan.org/Ticket/Display.html?id=95409>

If the block of code given to L</pairmap> contains lexical variables that are
captured by a returned closure, and the closure is executed after the block
has been re-used for the next iteration, these lexicals will not see the
correct values. For example:

```
my @subs = pairmap {
  my $var = "$a is $b";
  sub { print "$var\n" };
} one => 1, two => 2, three => 3;

$_->() for @subs;
```

Will incorrectly print

```
three is 3
three is 3
three is 3
```

This is due to the performance optimisation of using C<MULTICALL> for the code
block, which means that fresh SVs do not get allocated for each call to the
block. Instead, the same SV is re-assigned for
 each iteration, and all the
closures will share the value seen on the final iteration.

To work around this bug, surround the code with a second set of braces. This
creates an inner block that defeats the C<MULTICALL> logic, and does get fresh
SVs allocated each time:

```
my @subs = pairmap {
  {
    my $var = "$a is $b";
    sub { print "$var\n"; }
  }
} one => 1, two => 2, three => 3;
```

This bug only affects closures that are generated by the block but used afterwards. Lexical variables that are only used during the lifetime of the block's execution will take their individual values for each invocation, as normal.

=head2 uniqnum() on oversized bignums

Due to the way that C<uniqnum()> compares numbers, it cannot distinguish differences between bignums (especially bigints) that are too large to fit in the native platform types. For example,

```
my $x = Math::BigInt->new( "1" x 100 );
my $y = $x + 1;

say for uniqnum( $x, $y );
```

Will print just the value of C<$x>, believing
 that C<$y> is a numerically-
equivalent value. This bug does not affect C<uniqstr()>, which will correctly observe that the two values stringify to different strings.

=head1 SUGGESTED ADDITIONS

The following are additions that have been requested, but I have been reluctant to add due to them being very simple to implement in perl

```
 # How many elements are true

 sub true { scalar grep { $_ } @_ }

 # How many elements are false

 sub false { scalar grep { !$_ } @_ }
```

=head1 SEE ALSO

L<Scalar::Util>, L<List::MoreUtils>

=head1 COPYRIGHT

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Recent additions and current maintenance by
Paul Evans, <leonerd@leonerd.org.uk>.

=cut

Found in path(s):
* /perl-Scalar-List-Utils-1.49-2.el8.src.rpm-cosi-expand-archive-yRiYhbUa/Scalar-List-Utils-1.49.tar.gz-cosi-expand-archive-J35iwRNQ/Scalar-List-Utils-1.49/lib/List/Util.pm

1.75 perl-pod-escapes 1.07-395.el8

1.75.1 Available under license :

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

=head1 NAME

Pod::Escapes - for resolving Pod EE<lt>...E<gt> sequences

=head1 SYNOPSIS

```
 use Pod::Escapes qw(e2char);
 ...la la la, parsing POD, la la la...
 $text = e2char($e_node->label);
 unless(defined $text) {
   print "Unknown E sequence \"", $e_node->label, "\"!";
 }
 ...else print/interpolate $text...
```

=head1 DESCRIPTION

This module provides things that are useful in decoding
Pod EE<lt>...E<gt> sequences. Presumably, it should be used
only by Pod parsers and/or formatters.

By default, Pod::Escapes exports none of its symbols. But
you can request any of them to be exported.
Either request them individually, as with
C<use Pod::Escapes qw(symbolname symbolname2...);>,
or you can do C<use Pod::Escapes qw(:ALL);> to get all
exportable symbols.

=head1 GOODIES

=over

=item e2char($e_content)

Given a name or number that could appear in a
C<EE<lt>name_or_numE<gt>> sequence, this returns the string that
it
 stands for. For example, C<e2char('sol')>, C<e2char('47')>,
C<e2char('0x2F')>, and C<e2char('057')> all return "/",
because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>,
and C<EE<lt>057E<gt>>, all mean "/". If
the name has no known value (as with a name of "qacute") or is
syntactically invalid (as with a name of "1/4"), this returns undef.

=item e2charnum($e_content)

Given a name or number that could appear in a
C<EE<lt>name_or_numE<gt>> sequence, this returns the number of
the Unicode character that this stands for. For example,
C<e2char('sol')>, C<e2char('47')>,
C<e2char('0x2F')>, and C<e2char('057')> all return 47,
because C<EE<lt>solE<gt>>, C<EE<lt>47E<gt>>, C<EE<lt>0x2fE<gt>>,
and C<EE<lt>057E<gt>>, all mean "/", whose Unicode number is 47. If
the name has no known value (as with a name of "qacute") or is
syntactically invalid (as with a name of "1/4"), this returns undef.

=item $Name2character{I<name>}

Maps from names (as in C<EE<lt>I<name>E<gt>>) like "eacute"
 or "sol"
to the string that each stands for. Note that this does not
include numerics (like "64" or "x981c"). Under old Perl versions
(before 5.7) you get a "?" in place of characters whose Unicode
value is over 255.

=item $Name2character_number{I<name>}

Maps from names (as in C<EE<lt>I<name>E<gt>>) like "eacute" or "sol"
to the Unicode value that each stands for. For example,
C<$Name2character_number{'eacute'}> is 201, and
C<$Name2character_number{'eacute'}> is 8364. You get the correct
Unicode value, regardless of the version of Perl you're using --
which differs from C<%Name2character>'s behavior under pre-5.7 Perls.

Note that this hash does not
include numerics (like "64" or "x981c").

=item $Latin1Code_to_fallback{I<integer>}

For numbers in the range 160 (0x00A0) to 255 (0x00FF), this maps
from the character code for a Latin-1 character (like 233 for
lowercase e-acute) to the US-ASCII character that best aproximates
it (like "e"). You may find this useful if you are rendering
POD
in a format that you think deals well only with US-ASCII
characters.

=item $Latin1Char_to_fallback{I<character>}

Just as above, but maps from characters (like "\xE9",
lowercase e-acute) to characters (like "e").

=item $Code2USASCII{I<integer>}

This maps from US-ASCII codes (like 32) to the corresponding
character (like space, for 32). Only characters 32 to 126 are
defined. This is meant for use by C<e2char($x)> when it senses
that it's running on a non-ASCII platform (where chr(32) doesn't
get you a space -- but $Code2USASCII{32} will). It's
documented here just in case you might find it useful.

=back

=head1 CAVEATS

On Perl versions before 5.7, Unicode characters with a value
over 255 (like lambda or emdash) can't be conveyed. This
module does work under such early Perl versions, but in the
place of each such character, you get a "?". Latin-1
characters (characters 160-255) are unaffected.

Under EBCDIC platforms, C<e2char($n)> may not always be the
same as C<chr(e2charnum($n))>,
and ditto for
C<$Name2character{$name}> and
C<chr($Name2character_number{$name})>, because the strings are returned as
native, and the numbers are returned as Unicode.
However, for Perls starting with v5.8, C<e2char($n)> is the same as
C<chr(utf8::unicode_to_native(e2charnum($n)))>, and ditto for
C<$Name2character{$name}> and
C<chr(utf8::unicode_to_native($Name2character_number{$name}))>.

=head1 SEE ALSO

L<Pod::Browser> - a pod web server based on L<Catalyst>.

L<Pod::Checker> - check pod documents for syntax errors.

L<Pod::Coverage> - check if the documentation for a module is comprehensive.

L<perlpod> - description of pod format (for people documenting with pod).

L<perlpodspec> - specification of pod format (for people processing it).

L<Text::Unidecode> - ASCII transliteration of Unicode text.

=head1 REPOSITORY

L<https://github.com/neilbowers/Pod-Escapes>

=head1 COPYRIGHT AND DISCLAIMERS

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This
 library is free software; you can redistribute it and/or modify
it under the same terms as Perl itself.

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.

Portions of the data tables in this module are derived from the
entity declarations in the W3C XHTML specification.

Currently (October 2001), that's these three:

http://www.w3.org/TR/xhtml1/DTD/xhtml-lat1.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-special.ent
http://www.w3.org/TR/xhtml1/DTD/xhtml-symbol.ent

=head1 AUTHOR

Sean M. Burke C<sburke@cpan.org>

Now being maintained by Neil Bowers E<lt>neilb@cpan.orgE<gt>

=cut

#~~~

```
my %escapes;
foreach my $file (qw(
 xhtml-symbol.ent
 xhtml-lat1.ent
 xhtml-special.ent
)) {
 open(IN,
 "<$dir$file") or die "can't read-open $dir$file: $!";
 print "Reading $file...\n";
 while(<IN>) {
   if(m/<!ENTITY\s+(\S+)\s+"&#([^;]+);">/) {
     my($name, $value) = ($1,$2);
     next if $name eq 'quot' or $name eq 'apos' or $name eq 'gt';

     $value = hex $1 if $value =~ m/^x([a-fA-F0-9]+)$/s;
     print "ILLEGAL VALUE $value" unless $value =~ m/^\d+$/s;
     if($value > 255) {
       push @good , sprintf "   %-10s , chr(%s),\n", "'$name'", $value;
       push @bad  , sprintf "   %-10s , \$bad,\n", "'$name'", $value;
     } else {
       push @norms, sprintf " %-10s , chr(%s),\n", "'$name'", $value;
     }
   } elsif(m/<!ENT/) {
     print "# Skipping $_";
   }

 }
 close(IN);
}

print @norms;
print "\n ( \$] .= 5.006001 ? (\n";
print @good;
print " ) : (\n";
print @bad;
print " )\n);\n";

__END__
#~~~
```

* /perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-expand-archive-AcQE8bnL/perl-Pod-Escapes.spec
No license file was found, but licenses were detected in source scan.

---
abstract: unknown
author:
 - unknown
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.143240'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Pod-Escapes
no_index:
 directory:
   - t
   - inc
requires:
 Exporter: '0'
 perl: '5.006'
 strict: '0'
 vars: '0'
 warnings: '0'
resources:
 repository: git://github.com/neilbowers/Pod-Escapes.git
version: '1.07'

Found in path(s):
* /perl-Pod-Escapes-1.07-395.el8.src.rpm-cosi-expand-archive-AcQE8bnL/Pod-Escapes-1.07.tar.gz-cosi-expand-archive-GKGiQNjB/Pod-Escapes-1.07/META.yml

1.76 perl-data-dumper 2.167-399.el8

1.76.1 Available under license :

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

---
abstract: unknown
author:
 - unknown
build_requires:
 ExtUtils::MakeMaker: '0'

```
 Test::More: '0.98'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 0
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150001'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Data-Dumper
no_index:
 directory:
   - t
   - inc
requires: {}
resources:
 MailingList: http://lists.cpan.org/showlist.cgi?name=perl5-porters
 bugtracker: http://rt.perl.org/perlbug/
 repository: 'git://perl5.git.perl.org/perl.git perl-git'
version: '2.161'

Found in path(s):
* /perl-Data-Dumper-2.167-399.el8.src.rpm-cosi-expand-archive-lxnDj2VA/Data-Dumper-2.161.tar.gz-cosi-expand-archive-6LzdXmyr/Data-Dumper-2.161/META.yml
No license file was found, but licenses were detected in source scan.

=head1 NAME

Data::Dumper - stringified perl data structures, suitable for both printing and C<eval>

=head1 SYNOPSIS

  use Data::Dumper;

  # simple procedural interface
  print Dumper($foo, $bar);

  # extended usage with names
  print Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);

  # configuration variables
  {
    local $Data::Dumper::Purity = 1;
    eval Data::Dumper->Dump([$foo, $bar], [qw(foo *ary)]);
  }

  # OO usage
  $d = Data::Dumper->new([$foo, $bar], [qw(foo *ary)]);
```

```
  ...
print $d->Dump;
  ...
$d->Purity(1)->Terse(1)->Deepcopy(1);
eval $d->Dump;
```

=head1 DESCRIPTION

Given a list of scalars or reference variables, writes out their contents in perl syntax. The references can also be objects. The content of each variable is output in a single Perl statement. Handles self-referential structures correctly.

The return value can be C<eval>ed to get back an identical copy of the original reference structure. (Please do consider the security implications of eval'ing code from untrusted sources!)

Any references that are the same as one of those passed in will be named C<$VAR>I<n> (where I<n> is a numeric suffix), and other duplicate references to substructures within C<$VAR>I<n> will be appropriately labeled using arrow notation. You can specify names for individual values to be dumped if you use the C<Dump()> method, or you can change the default C<$VAR> prefix to something else. See C<$Data::Dumper::Varname> and C<$Data::Dumper::Terse> below.

The default output of self-referential structures can be C<eval>ed, but the nested references to C<$VAR>I<n> will be undefined, since a recursive structure cannot be constructed using one Perl statement. You should set the C<Purity> flag to 1 to get additional statements that will correctly fill in these references. Moreover, if C<eval>ed when strictures are in effect, you need to ensure that any variables it accesses are previously declared.

In the extended usage form, the references to be dumped can be given user-specified names. If a name begins with a C<*>, the output will describe the dereferenced type of the supplied reference for hashes and arrays, and coderefs. Output of names will be avoided where possible if the C<Terse> flag is set.

In many cases, methods that are used to set the internal state of the object will return the object itself, so method calls can be conveniently chained together.

Several styles of output are possible, all controlled by setting the C<Indent> flag. See L<Configuration Variables or Methods> below for details.

=head2 Methods

=over 4

=item I<PACKAGE>->new(I<ARRAYREF [>, I<ARRAYREF]>)

Returns a newly created C<Data::Dumper> object. The first argument is an
anonymous array of values to be dumped. The optional second argument is an
anonymous array of names for the values. The names need not have a leading
C<$> sign, and must
 be comprised of alphanumeric characters. You can begin
a name with a C<*> to specify that the dereferenced type must be dumped
instead of the reference itself, for ARRAY and HASH references.

The prefix specified by C<$Data::Dumper::Varname> will be used with a
numeric suffix if the name for a value is undefined.

Data::Dumper will catalog all references encountered while dumping the
values. Cross-references (in the form of names of substructures in perl
syntax) will be inserted at all possible points, preserving any structural
interdependencies in the original set of values. Structure traversal is
depth-first, and proceeds in order from the first supplied value to
the last.

=item I<$OBJ>->Dump I<or> I<PACKAGE>->Dump(I<ARRAYREF [>, I<ARRAYREF]>)

Returns the stringified form of the values stored in the object (preserving
the order in which they were supplied to C<new>), subject to the
configuration options below. In a list context, it returns a list
of strings corresponding to the
 supplied values.

The second form, for convenience, simply calls the C<new> method on its
arguments before dumping the object immediately.

=item I<$OBJ>->Seen(I<[HASHREF]>)

Queries or adds to the internal table of already encountered references.
You must use C<Reset> to explicitly clear the table if needed. Such
references are not dumped; instead, their names are inserted wherever they
are encountered subsequently. This is useful especially for properly
dumping subroutine references.

Expects an anonymous hash of name => value pairs. Same rules apply for names
as in C<new>. If no argument is supplied, will return the "seen" list of
name => value pairs, in a list context. Otherwise, returns the object

itself.

=item I<$OBJ>->Values(I<[ARRAYREF]>)

Queries or replaces the internal array of values that will be dumped. When called without arguments, returns the values as a list. When called with a reference to an array of replacement values, returns the object itself. When called
with any other type of argument, dies.

=item I<$OBJ>->Names(I<[ARRAYREF]>)

Queries or replaces the internal array of user supplied names for the values that will be dumped. When called without arguments, returns the names. When called with an array of replacement names, returns the object itself. If the number of replacement names exceeds the number of values to be named, the excess names will not be used. If the number of replacement names falls short of the number of values to be named, the list of replacement names will be exhausted and remaining values will not be renamed. When
called with any other type of argument, dies.

=item I<$OBJ>->Reset

Clears the internal table of "seen" references and returns the object
itself.

=back

=head2 Functions

=over 4

=item Dumper(I<LIST>)

Returns the stringified form of the values in the list, subject to the configuration options below. The values will be named C<$VAR>I<n> in the output, where I<n> is a numeric suffix. Will return
a list of strings
in a list context.

=back

=head2 Configuration Variables or Methods

Several configuration variables can be used to control the kind of output generated when using the procedural interface. These variables are usually C<local>ized in a block so that other parts of the code are not affected by the change.

These variables determine the default state of the object created by calling the C<new> method, but cannot be used to alter the state of the object thereafter. The equivalent method names should be used instead to query or set the internal state of the object.

The method forms return the object itself when called with arguments, so that they can be chained together nicely.

=over 4

=item *

$Data::Dumper::Indent I<or> I<$OBJ>->Indent(I<[NEWVAL]>)

Controls the style of indentation. It can be set to 0, 1, 2 or 3. Style 0 spews output without any newlines, indentation, or spaces between list items. It is the most compact format possible that can still be called valid
perl. Style 1 outputs a readable form with newlines but no fancy indentation (each level in the structure is simply indented by a fixed amount of whitespace). Style 2 (the default) outputs a very readable form which takes into account the length of hash keys (so the hash value lines up). Style 3 is like style 2, but also annotates the elements of arrays with their index (but the comment is on its own line, so array output consumes twice the number of lines). Style 2 is the default.

=item *

$Data::Dumper::Trailingcomma I<or> I<$OBJ>->Trailingcomma(I<[NEWVAL]>)

Controls whether a comma is added after the last element of an array or hash. Even when true, no comma is added between the last element of an array or hash and a closing bracket when they appear on the same line. The default is false.

=item *

$Data::Dumper::Purity I<or> I<$OBJ>->Purity(I<[NEWVAL]>)

Controls the degree to which the output can be C<eval>ed to recreate the supplied reference structures. Setting
it to 1 will output additional perl
statements that will correctly recreate nested references. The default is 0.

=item *

$Data::Dumper::Pad I<or> I<$OBJ>->Pad(I<[NEWVAL]>)

Specifies the string that will be prefixed to every line of the output.
Empty string by default.

=item *

$Data::Dumper::Varname I<or> I<$OBJ>->Varname(I<[NEWVAL]>)

Contains the prefix to use for tagging variable names in the output. The
default is "VAR".

=item *

$Data::Dumper::Useqq I<or> I<$OBJ>->Useqq(I<[NEWVAL]>)

When set, enables the use of double quotes for representing string values.
Whitespace other than space will be represented as C<[\n\t\r]>, "unsafe"
characters will be backslashed, and unprintable characters will be output as
quoted octal integers. The default is 0.

=item *

$Data::Dumper::Terse I<or> I<$OBJ>->Terse(I<[NEWVAL]>)

When set, Data::Dumper will emit single, non-self-referential values as
atoms/terms rather than statements. This means that the C<$VAR>I<n> names
will be
 avoided where possible, but be advised that such output may not
always be parseable by C<eval>.

=item *

$Data::Dumper::Freezer I<or> $I<OBJ>->Freezer(I<[NEWVAL]>)

Can be set to a method name, or to an empty string to disable the feature.
Data::Dumper will invoke that method via the object before attempting to
stringify it. This method can alter the contents of the object (if, for
instance, it contains data allocated from C), and even rebless it in a
different package. The client is responsible for making sure the specified
method can be called via the object, and that the object ends up containing
only perl data types after the method has been called. Defaults to an empty
string.

If an object does not support the method specified (determined using
UNIVERSAL::can()) then the call will be skipped. If the method dies a
warning will be generated.

=item *

$Data::Dumper::Toaster I<or> $I<OBJ>->Toaster(I<[NEWVAL]>)

Can be set to a method name, or to an empty string to disable
 the feature.
Data::Dumper will emit a method call for any objects that are to be dumped
using the syntax C<bless(DATA, CLASS)-E<gt>METHOD()>. Note that this means that
the method specified will have to perform any modifications required on the
object (like creating new state within it, and/or reblessing it in a
different package) and then return it. The client is responsible for making
sure the method can be called via the object, and that it returns a valid
object. Defaults to an empty string.

=item *

$Data::Dumper::Deepcopy I<or> $I<OBJ>->Deepcopy(I<[NEWVAL]>)

Can be set to a boolean value to enable deep copies of structures.
Cross-referencing will then only be done when absolutely essential
(i.e., to break reference cycles). Default is 0.

=item *

$Data::Dumper::Quotekeys I<or> $I<OBJ>->Quotekeys(I<[NEWVAL]>)

Can be set to a boolean value to control whether hash keys are quoted.
A defined false value will avoid quoting hash keys when it looks like a simple
string. Default
 is 1, which will always enclose hash keys in quotes.

=item *

$Data::Dumper::Bless I<or> $I<OBJ>->Bless(I<[NEWVAL]>)

Can be set to a string that specifies an alternative to the C<bless>
builtin operator used to create objects. A function with the specified
name should exist, and should accept the same arguments as the builtin.
Default is C<bless>.

=item *

$Data::Dumper::Pair I<or> $I<OBJ>->Pair(I<[NEWVAL]>)

Can be set to a string that specifies the separator between hash keys
and values. To dump nested hash, array and scalar values to JavaScript,
use: C<$Data::Dumper::Pair = ' : ';>. Implementing C<bless> in JavaScript
is left as an exercise for the reader.

A function with the specified name exists, and accepts the same arguments
as the builtin.

Default is: C< =E<gt> >.

=item *

$Data::Dumper::Maxdepth I<or> $I<OBJ>->Maxdepth(I<[NEWVAL]>)

Can be set to a positive integer that specifies the depth beyond which
we don't venture into a structure. Has no effect when
C<Data::Dumper::Purity>
 is set. (Useful in debugger when we often don't
want to see more than enough). Default is 0, which means there is
no maximum depth.

=item *

$Data::Dumper::Maxrecurse I<or> $I<OBJ>->Maxrecurse(I<[NEWVAL]>)

Can be set to a positive integer that specifies the depth beyond which
recursion into a structure will throw an exception. This is intended
as a security measure to prevent perl running out of stack space when
dumping an excessively deep structure. Can be set to 0 to remove the
limit. Default is 1000.

=item *

$Data::Dumper::Useperl I<or> $I<OBJ>->Useperl(I<[NEWVAL]>)

Can be set to a boolean value which controls whether the pure Perl
implementation of C<Data::Dumper> is used. The C<Data::Dumper> module is
a dual implementation, with almost all functionality written in both
pure Perl and also in XS ('C'). Since the XS version is much faster, it
will always be used if possible. This option lets you override the
default behavior, usually for testing purposes
 only. Default is 0, which
means the XS implementation will be used if possible.

=item *

$Data::Dumper::Sortkeys I<or> $I<OBJ>->Sortkeys(I<[NEWVAL]>)

Can be set to a boolean value to control whether hash keys are dumped in
sorted order. A true value will cause the keys of all hashes to be
dumped in Perl's default sort order. Can also be set to a subroutine
reference which will be called for each hash that is dumped. In this
case C<Data::Dumper> will call the subroutine once for each hash,

passing it the reference of the hash. The purpose of the subroutine is
to return a reference to an array of the keys that will be dumped, in
the order that they should be dumped. Using this feature, you can
control both the order of the keys, and which keys are actually used. In
other words, this subroutine acts as a filter by which you can exclude
certain keys from being dumped. Default is 0, which means that hash keys
are not sorted.

=item *

$Data::Dumper::Deparse I<or> $I<OBJ>->Deparse(I<[NEWVAL]>)

Can
 be set to a boolean value to control whether code references are
turned into perl source code. If set to a true value, C<B::Deparse>
will be used to get the source of the code reference. Using this option
will force using the Perl implementation of the dumper, since the fast
XSUB implementation doesn't support it.

Caution : use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.

=item *

$Data::Dumper::Sparseseen I<or> $I<OBJ>->Sparseseen(I<[NEWVAL]>)

By default, Data::Dumper builds up the "seen" hash of scalars that
it has encountered during serialization. This is very expensive.
This seen hash is necessary to support and even just detect circular
references. It is exposed to the user via the C<Seen()> call both
for writing and reading.

If you, as a user, do not need explicit access to the "seen" hash,
then you can set the C<Sparseseen> option to allow Data::Dumper
to eschew building the "seen" hash for scalars that
 are known not
to possess more than one reference. This speeds up serialization
considerably if you use the XS implementation.

Note: If you turn on C<Sparseseen>, then you must not rely on the
content of the seen hash since its contents will be an
implementation detail!

=back

=head2 Exports

=over 4

=item Dumper

=back

=head1 EXAMPLES

Run these code snippets to get a quick feel for the behavior of this
module. When you are through with these examples, you may want to
add or change the various configuration variables described above,
to see their behavior. (See the testsuite in the Data::Dumper
distribution for more examples.)

```
  use Data::Dumper;

  package Foo;
  sub new {bless {'a' => 1, 'b' => sub { return "foo" }}, $_[0]};

  package Fuz;                       # a weird REF-REF-SCALAR object
  sub new {bless \($_ = \ 'fu\'z'), $_[0]};

  package main;
  $foo = Foo->new;
  $fuz = Fuz->new;
  $boo = [ 1, [], "abcd", \*foo,
          {1 => 'a', 023 => 'b',
 0x45 => 'c'},
          \\"p\q\'r", $foo, $fuz];

  ########
  # simple usage
  ########

  $bar = eval(Dumper($boo));
  print($@) if $@;
  print Dumper($boo), Dumper($bar);  # pretty print (no array indices)

  $Data::Dumper::Terse = 1;       # don't output names where feasible
  $Data::Dumper::Indent = 0;      # turn off all pretty print
  print Dumper($boo), "\n";

  $Data::Dumper::Indent = 1;      # mild pretty print
  print Dumper($boo);

  $Data::Dumper::Indent = 3;      # pretty print with array indices
  print Dumper($boo);
```

```
$Data::Dumper::Useqq = 1;        # print strings in double quotes
print Dumper($boo);

$Data::Dumper::Pair = " : ";     # specify hash key/value separator
print Dumper($boo);


########
# recursive structures
########

@c = ('c');
$c = \@c;
$b = {};
$a = [1, $b, $c];
$b->{a} = $a;
$b->{b} = $a->[1];
$b->{c} = $a->[2];
print Data::Dumper->Dump([$a,$b,$c], [qw(a b c)]);


 $Data::Dumper::Purity = 1;         # fill in the holes for eval
print Data::Dumper->Dump([$a, $b], [qw(*a b)]); # print as @a
print Data::Dumper->Dump([$b, $a], [qw(*b a)]); # print as %b


$Data::Dumper::Deepcopy = 1;       # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);


$Data::Dumper::Purity = 0;         # avoid cross-refs
print Data::Dumper->Dump([$b, $a], [qw(*b a)]);

########
# deep structures
########

$a = "pearl";
$b = [ $a ];
$c = { 'b' => $b };
$d = [ $c ];
$e = { 'd' => $d };
$f = { 'e' => $e };
print Data::Dumper->Dump([$f], [qw(f)]);

$Data::Dumper::Maxdepth = 3;       # no deeper than 3 refs down
print Data::Dumper->Dump([$f], [qw(f)]);
```

```
########
# object-oriented usage
########

$d = Data::Dumper->new([$a,$b], [qw(a b)]);
$d->Seen({'*c' => $c});          # stash a ref without printing it
$d->Indent(3);
print $d->Dump;
$d->Reset->Purity(0);
        # empty the seen cache
print join "----\n", $d->Dump;


########
# persistence
########

package Foo;
sub new { bless { state => 'awake' }, shift }
sub Freeze {
   my $s = shift;
   print STDERR "preparing to sleep\n";
   $s->{state} = 'asleep';
   return bless $s, 'Foo::ZZZ';
}

package Foo::ZZZ;
sub Thaw {
   my $s = shift;
   print STDERR "waking up\n";
   $s->{state} = 'awake';
   return bless $s, 'Foo';
}

package main;
use Data::Dumper;
$a = Foo->new;
$b = Data::Dumper->new([$a], ['c']);
$b->Freezer('Freeze');
$b->Toaster('Thaw');
$c = $b->Dump;
print $c;
$d = eval $c;
print Data::Dumper->Dump([$d], ['d']);


########
```

```
  # symbol substitution (useful for recreating CODE refs)
  ########

  sub foo { print "foo speaking\n" }
  *other = \&foo;
  $bar = [ \&other ];
  $d = Data::Dumper->new([\&other,$bar],['*other','bar']);

  $d->Seen({ '*foo' => \&foo });
  print $d->Dump;



  ########
  # sorting and filtering hash keys
  ########

  $Data::Dumper::Sortkeys = \&my_filter;
  my $foo = { map { (ord, "$_$_$_") } 'I'..'Q' };
  my $bar = { %$foo };
  my $baz = { reverse %$foo };
  print Dumper [ $foo, $bar, $baz ];

  sub my_filter {
      my ($hash) = @_;
      # return an array ref containing the hash keys to dump
      # in the order that you want them to be dumped
      return [
        # Sort the keys of %$foo in reverse numeric order
          $hash eq $foo ? (sort {$b <=> $a} keys %$hash) :
        # Only dump the odd number keys of %$bar
          $hash eq $bar ? (grep {$_ % 2} keys %$hash) :
        # Sort keys in default order for all other hashes
          (sort keys %$hash)
      ];
  }

=head1 BUGS

Due to limitations of Perl subroutine call semantics, you cannot pass an
array or hash.  Prepend it with a C<\> to pass its reference instead.  This
will be
 remedied in time, now that Perl has subroutine prototypes.
For now, you need to use the extended usage form, and prepend the
name with a C<*> to output it as a hash or array.

C<Data::Dumper> cheats with CODE references.  If a code reference is
encountered in the structure being processed (and if you haven't set
the C<Deparse> flag), an anonymous subroutine that
```

contains the string '"DUMMY"' will be inserted in its place, and a warning
will be printed if C<Purity> is set. You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
Someday, perl will have a switch to cache-on-demand the string
representation of a compiled piece of code, I hope. If you have prior
knowledge of all the code refs that your data structures are likely
to have, you can use the C<Seen> method to pre-seed the internal reference
table and make the dumped output point to them, instead. See L</EXAMPLES>
above.

The C<Deparse> flag makes Dump() run slower, since
 the XSUB
implementation does not support it.

SCALAR objects have the weirdest looking C<bless> workaround.

Pure Perl version of C<Data::Dumper> escapes UTF-8 strings correctly
only in Perl 5.8.0 and later.

=head2 NOTE

Starting from Perl 5.8.1 different runs of Perl will have different
ordering of hash keys. The change was done for greater security,
see L<perlsec/"Algorithmic Complexity Attacks">. This means that
different runs of Perl will have different Data::Dumper outputs if
the data contains hashes. If you need to have identical Data::Dumper
outputs from different runs of Perl, use the environment variable
PERL_HASH_SEED, see L<perlrun/PERL_HASH_SEED>. Using this restores
the old (platform-specific) ordering: an even prettier solution might
be to use the C<Sortkeys> filter of Data::Dumper.

=head1 AUTHOR

Gurusamy Sarathy   gsar@activestate.com

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This program is free software; you can redistribute it and/or
modify
 it under the same terms as Perl itself.

=head1 VERSION

Version 2.161 (July 11 2016)

=head1 SEE ALSO

perl(1)

=cut

Found in path(s):
* /perl-Data-Dumper-2.167-399.el8.src.rpm-cosi-expand-archive-lxnDj2VA/Data-Dumper-2.161.tar.gz-cosi-expand-archive-6LzdXmyr/Data-Dumper-2.161/Dumper.pm
No license file was found, but licenses were detected in source scan.

From 9f38b6c605086a67f0d92591f8e8dc99bc1d9164 Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Petr=20P=C3=ADsa=C5=99?= <ppisar@redhat.com>
Date: Thu, 11 May 2017 09:25:35 +0200
Subject: [PATCH] Upgrade to 2.167
MIME-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 8bit

Unbundled from perl-5.25.12.

Signed-off-by: Petr Písa <ppisar@redhat.com>

Changes | 14 +++++
Dumper.pm | 47 +++++++++---------
Dumper.xs | 167 +++++++++

```
+
=item 2.161 (Jul 11 2016)

Perl 5.12 fix/workaround until fixed PPPort release.
diff --git a/Dumper.pm b/Dumper.pm
index c71ad35..00f6326 100644
--- a/Dumper.pm
+++ b/Dumper.pm
@@ -10,16 +10,15 @@
package Data::Dumper;

BEGIN {
-    $VERSION = '2.161'; # Don't forget to set version and release
+    $VERSION = '2.167'; # Don't forget to set version and release
}             # date in POD below!

#$| = 1;

use 5.006_001;
require Exporter;
-require overload;

-use Carp;
+use Carp ();

BEGIN {
   @ISA = qw(Exporter);
@@ -70,7 +69,7 @@ $Maxrecurse = 1000      unless defined $Maxrecurse;
sub new {
  my($c, $v, $n) = @_;

-  croak "Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])"
+  Carp::croak("Usage:  PACKAGE->new(ARRAYREF, [ARRAYREF])")
    unless
 (defined($v) && (ref($v) eq 'ARRAY'));
  $n = [] unless (defined($n) && (ref($n) eq 'ARRAY'));

@@ -170,11 +169,11 @@ sub Seen {
         $s->{seen}{$id} = [$k, $v];
       }
       else {
-        carp "Only refs supported, ignoring non-ref item \$$k";
+        Carp::carp("Only refs supported, ignoring non-ref item \$$k");
       }
     }
     else {
-      carp "Value of ref must be defined; ignoring undefined item \$$k";
+      Carp::carp("Value of ref must be defined; ignoring undefined item \$$k");
```

```
     }
    }
    return $s;
@@ -195,7 +194,7 @@ sub Values {
     return $s;
    }
    else {
-     croak "Argument to Values, if provided, must be array ref";
+     Carp::croak("Argument to Values, if provided, must be array ref");
    }
   }
   else {
@@ -214,7 +213,7 @@ sub Names {
     return $s;
    }
    else {
-     croak "Argument to Names, if provided, must be array ref";
+     Carp::croak("Argument to Names, if provided, must be array
 ref");
    }
   }
   else {
@@ -227,7 +226,6 @@ sub DESTROY {}
 sub Dump {
    return &Dumpxs
    unless $Data::Dumper::Useperl || (ref($_[0]) && $_[0]->{useperl})
-       || $Data::Dumper::Deparse || (ref($_[0]) && $_[0]->{deparse})

          # Use pure perl version on earlier releases on EBCDIC platforms
       || (! $IS_ASCII && $] lt 5.021_010);
@@ -439,7 +437,7 @@ sub _dump {
       if (ref($s->{sortkeys}) eq 'CODE') {
         $keys = $s->{sortkeys}($val);
         unless (ref($keys) eq 'ARRAY') {
-           carp "Sortkeys subroutine did not return ARRAYREF";
+           Carp::carp("Sortkeys subroutine did not return ARRAYREF");
           $keys = [];
         }
       }
@@ -487,16 +485,16 @@ sub _dump {
       require B::Deparse;
       my $sub =  'sub ' . (B::Deparse->new)->coderef2text($val);
       $pad    =  $s->{sep} . $s->{pad} . $s->{apad} . $s->{xpad} x ($s->{level} - 1);
-       $sub    =~ s/\n/$pad/gse;
+       $sub    =~ s/\n/$pad/gs;
       $out   .=  $sub;
     }
     else {
```

```
        $out .= 'sub { "DUMMY" }';
-       carp "Encountered CODE ref, using dummy placeholder" if $s->{purity};
+       Carp::carp("Encountered CODE ref, using dummy placeholder") if $s->{purity};
      }
    }
    else {
-     croak "Can't handle '$realtype' type";
+     Carp::croak("Can't handle '$realtype' type");
    }

    if ($realpack and !$no_bless) { # we have a blessed ref
@@ -1212,9 +1210,10 @@ $Data::Dumper::Deparse  I<or>  $I<OBJ>->Deparse(I<[NEWVAL]>)

Can be set to a boolean value to control whether code references are
turned into perl source code. If set to a true value, C<B::Deparse>
-will be used to get the source of the code reference. Using this option
-will force using the Perl implementation of the dumper, since the fast
-XSUB implementation doesn't support it.
+will be used to get the source of the code reference. In older versions,
+using this option imposed a significant performance penalty when
 dumping
+parts of a data structure other than code references, but that is no
+longer the case.

Caution : use this option only if you know that your coderefs will be
properly reconstructed by C<B::Deparse>.
@@ -1435,15 +1434,9 @@ the C<Deparse> flag), an anonymous subroutine that
contains the string '"DUMMY"' will be inserted in its place, and a warning
will be printed if C<Purity> is set.  You can C<eval> the result, but bear
in mind that the anonymous sub that gets created is just a placeholder.
-Someday, perl will have a switch to cache-on-demand the string
-representation of a compiled piece of code, I hope.  If you have prior
-knowledge of all the code refs that your data structures are likely
-to have, you can use the C<Seen> method to pre-seed the internal reference
-table and make the dumped output point to them, instead.  See L</EXAMPLES>
-above.
-
-The C<Deparse> flag makes Dump() run slower, since the XSUB
-implementation does not support it.
+Even using the C<Deparse>
 flag will in some cases produce results that
+behave differently after being passed to C<eval>; see the documentation
+for L<B::Deparse>.

SCALAR objects have the weirdest looking C<bless> workaround.

@@ -1466,13 +1459,13 @@ be to use the C<Sortkeys> filter of Data::Dumper.
```

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modify it under the same terms as Perl itself.

=head1 VERSION

-Version 2.161 (July 11 2016)
+Version 2.167 (January 4 2017)

=head1 SEE ALSO

diff --git a/Dumper.xs b/Dumper.xs
index b22088f..0e7142e 100644
--- a/Dumper.xs
+++ b/Dumper.xs
@@ -63,6 +63,7 @@ typedef struct {
  I32 useqq;
  int use_sparse_seen_hash;
  int trailingcomma;
+ int deparse;
} Style;

static STRLEN num_q (const char *s, STRLEN slen);
@@ -369,7 +370,7 @@ esc_q_utf8(pTHX_ SV*
 sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
  UV k;

  if (do_utf8
- && ! isASCII(*(U8*)s)
+ && ! isASCII(*s)
  /* Exclude non-ASCII low ordinal controls. This should be
  * optimized out by the compiler on ASCII platforms; if not
  * could wrap it in a #ifdef EBCDIC, but better to avoid
@@ -387,11 +388,11 @@ esc_q_utf8(pTHX_ SV* sv, const char *src, STRLEN slen, I32 do_utf8, I32 useqq)
  increment = (k == 0 && *s != '\0') ? 1 : UTF8SKIP(s);

#if PERL_VERSION < 10
- sprintf(r, "\\x{%"UVxf"}", k);
+ sprintf(r, "\\x{%" UVxf "}", k);
  r += strlen(r);
  /* my_sprintf is not supported by ppport.h */
#else
- r = r + my_sprintf(r, "\\x{%"UVxf"}", k);
+ r = r + my_sprintf(r, "\\x{%" UVxf "}", k);
#endif

```
            continue;
          }
@@ -505,6 +506,53
 @@ sv_x(pTHX_ SV *sv, const char *str, STRLEN len, I32 n)
   return sv;
}

+static SV *
+deparsed_output(pTHX_ SV *val)
+{
+    SV *text;
+    int n;
+    dSP;
+
+    /* This is passed to load_module(), which decrements its ref count and
+     * modifies it (so we also can't reuse it below) */
+    SV *pkg = newSVpvs("B::Deparse");
+
+    load_module(PERL_LOADMOD_NOIMPORT, pkg, 0);
+
+    SAVETMPS;
+
+    PUSHMARK(SP);
+    mXPUSHs(newSVpvs("B::Deparse"));
+    PUTBACK;
+
+    n = call_method("new", G_SCALAR);
+    SPAGAIN;
+
+    if (n != 1) {
+        croak("B::Deparse->new returned %d items, but expected exactly 1", n);
+    }
+
+    PUSHMARK(SP - n);
+    XPUSHs(val);
+    PUTBACK;
+
+    n = call_method("coderef2text", G_SCALAR);
+    SPAGAIN;
+
+    if (n != 1) {
+        croak("$b_deparse->coderef2text returned %d items, but expected exactly 1", n);
+    }
+
+    text = POPs;
+    SvREFCNT_inc(text);         /* the caller will mortalise this */
+
+    FREETMPS;
```

```
+
+    PUTBACK;
+
+
    return text;
+}
+
/*
 * This ought to be split into smaller functions. (it is one long function since
 * it exactly parallels the perl version, which was one long thing for
@@ -565,14 +613,14 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
*seenhv,
           i = perl_call_method(SvPVX_const(style->freezer), G_EVAL|G_VOID|G_DISCARD);
     SPAGAIN;
     if (SvTRUE(ERRSV))
-  warn("WARNING(Freezer method call failed): %"SVf"", ERRSV);
+  warn("WARNING(Freezer method call failed): %" SVf, ERRSV);
     PUTBACK; FREETMPS; LEAVE;
 }

 ival = SvRV(val);
 realtype = SvTYPE(ival);
#ifdef DD_USE_OLD_ID_FORMAT
-       idlen = my_snprintf(id, sizeof(id), "0x%"UVxf, PTR2UV(ival));
+       idlen = my_snprintf(id, sizeof(id), "0x%" UVxf, PTR2UV(ival));
#else
 id_buffer = PTR2UV(ival);
 idlen = sizeof(id_buffer);
@@ -630,7 +678,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
*seenhv,
#ifdef DD_USE_OLD_ID_FORMAT
      warn("ref name not found for %s", id);
#else
-     warn("ref name not found for 0x%"UVxf, PTR2UV(ival));
+     warn("ref name not found for 0x%" UVxf, PTR2UV(ival));
#endif
     return 0;
  }
@@ -848,10 +896,10 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
*seenhv,
  ilen = inamelen;
  sv_setiv(ixsv, ix);
#if PERL_VERSION < 10
-             (void) sprintf(iname+ilen, "%"IVdf, (IV)ix);
+             (void) sprintf(iname+ilen, "%" IVdf, (IV)ix);
  ilen = strlen(iname);
#else
-             ilen = ilen + my_sprintf(iname+ilen, "%"IVdf, (IV)ix);
```

```
+               ilen = ilen + my_sprintf(iname+ilen, "%" IVdf, (IV)ix);
#endif
  iname[ilen++] = ']'; iname[ilen] = '\0';
              if (style->indent >= 3) {
@@ -886,7 +934,6 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
*seenhv,
     SV *sname;
     HE *entry = NULL;
     char *key;
-    STRLEN klen;
     SV *hval;
     AV *keys = NULL;

@@ -976,6
 +1023,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV *seenhv,
              char *nkey_buffer = NULL;
              STRLEN nticks = 0;
  SV* keysv;
+              STRLEN klen;
  STRLEN keylen;
              STRLEN nlen;
  bool do_utf8 = FALSE;
@@ -1029,7 +1077,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
*seenhv,
              if (style->quotekeys || key_needs_quote(key,keylen)) {
                 if (do_utf8 || style->useqq) {
                    STRLEN ocur = SvCUR(retval);
-                    nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
+                    klen = nlen = esc_q_utf8(aTHX_ retval, key, klen, do_utf8, style->useqq);
                    nkey = SvPVX(retval) + ocur;
                 }
                 else {
@@ -1095,9 +1143,41 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
*seenhv,
     SvREFCNT_dec(totpad);
 }
  else if (realtype == SVt_PVCV) {
-    sv_catpvs(retval, "sub { \"DUMMY\" }");
-          if (style->purity)
-  warn("Encountered CODE ref, using dummy placeholder");
+          if (style->deparse) {
+              SV *deparsed = sv_2mortal(deparsed_output(aTHX_ val));
+              SV *fullpad = sv_2mortal(newSVsv(style->sep));
+              const char *p;
+              STRLEN plen;
+              I32 i;
+
+              sv_catsv(fullpad, style->pad);
```

```
+               sv_catsv(fullpad, apad);
+               for (i = 0; i < level; i++) {
+                   sv_catsv(fullpad, style->xpad);
+               }
+
+               sv_catpvs(retval, "sub ");
+               p = SvPV(deparsed, plen);
+               while (plen > 0) {
+                   const char *nl = (const char *) memchr(p, '\n', plen);
+                   if (!nl) {
+                       sv_catpvn(retval, p, plen);
+                       break;
+                   }
+
    else {
+                       size_t n = nl - p;
+                       sv_catpvn(retval, p, n);
+                       sv_catsv(retval, fullpad);
+                       p += n + 1;
+                       plen -= n + 1;
+                   }
+               }
+           }
+           else {
+               sv_catpvs(retval, "sub { \"DUMMY\" }");
+               if (style->purity)
+                   warn("Encountered CODE ref, using dummy placeholder");
+           }
 }
 else {
     warn("cannot handle ref type %d", (int)realtype);
@@ -1144,7 +1224,7 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen, SV *retval, HV
*seenhv,

 if (namelen) {
#ifdef DD_USE_OLD_ID_FORMAT
-     idlen = my_snprintf(id, sizeof(id), "0x%"UVxf, PTR2UV(val));
+     idlen = my_snprintf(id, sizeof(id), "0x%" UVxf, PTR2UV(val));
#else
     id_buffer = PTR2UV(val);
     idlen = sizeof(id_buffer);
@@ -1184,9 +1264,9 @@ DD_dump(pTHX_ SV *val, const char *name, STRLEN namelen,
 SV *retval, HV *seenhv,
       if (DD_is_integer(val)) {
          STRLEN len;
     if (SvIsUV(val))
-       len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"UVuf, SvUV(val));
+       len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" UVuf, SvUV(val));
```

```
    else
-       len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, SvIV(val));
+       len = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf, SvIV(val));
          if (SvPOK(val)) {
            /* Need to check to see if this is a string such as " 0".
               I'm assuming from sprintf isn't going to clash with utf8. */
@@ -1412,53 +1492,55 @@ Data_Dumper_Dumpxs(href, ...)
  && (hv = (HV*)SvRV((SV*)href))
  && SvTYPE(hv) == SVt_PVHV)  {

-  if ((svp = hv_fetch(hv, "seen", 4, FALSE)) && SvROK(*svp))
+  if ((svp = hv_fetchs(hv, "seen", FALSE)) && SvROK(*svp))
      seenhv = (HV*)SvRV(*svp);
              else
                 style.use_sparse_seen_hash = 1;
-  if ((svp = hv_fetch(hv, "noseen", 6, FALSE)))
+  if ((svp
+ = hv_fetchs(hv, "noseen", FALSE)))
                 style.use_sparse_seen_hash = (SvOK(*svp) && SvIV(*svp) != 0);
-  if ((svp = hv_fetch(hv, "todump", 6, FALSE)) && SvROK(*svp))
+  if ((svp = hv_fetchs(hv, "todump", FALSE)) && SvROK(*svp))
      todumpav = (AV*)SvRV(*svp);
-  if ((svp = hv_fetch(hv, "names", 5, FALSE)) && SvROK(*svp))
+  if ((svp = hv_fetchs(hv, "names", FALSE)) && SvROK(*svp))
      namesav = (AV*)SvRV(*svp);
-  if ((svp = hv_fetch(hv, "indent", 6, FALSE)))
+  if ((svp = hv_fetchs(hv, "indent", FALSE)))
                 style.indent = SvIV(*svp);
-  if ((svp = hv_fetch(hv, "purity", 6, FALSE)))
+  if ((svp = hv_fetchs(hv, "purity", FALSE)))
                 style.purity = SvIV(*svp);
-  if ((svp = hv_fetch(hv, "terse", 5, FALSE)))
+  if ((svp = hv_fetchs(hv, "terse", FALSE)))
      terse = SvTRUE(*svp);
-  if ((svp = hv_fetch(hv, "useqq", 5, FALSE)))
+  if ((svp = hv_fetchs(hv, "useqq", FALSE)))
                 style.useqq = SvTRUE(*svp);
-  if ((svp
- = hv_fetch(hv, "pad", 3, FALSE)))
+  if ((svp = hv_fetchs(hv, "pad", FALSE)))
                 style.pad = *svp;
-  if ((svp = hv_fetch(hv, "xpad", 4, FALSE)))
+  if ((svp = hv_fetchs(hv, "xpad", FALSE)))
                 style.xpad = *svp;
-  if ((svp = hv_fetch(hv, "apad", 4, FALSE)))
+  if ((svp = hv_fetchs(hv, "apad", FALSE)))
      apad = *svp;
-  if ((svp = hv_fetch(hv, "sep", 3, FALSE)))
```

```
+  if ((svp = hv_fetchs(hv, "sep", FALSE)))
                style.sep = *svp;
-  if ((svp = hv_fetch(hv, "pair", 4, FALSE)))
+  if ((svp = hv_fetchs(hv, "pair", FALSE)))
                style.pair = *svp;
-  if ((svp = hv_fetch(hv, "varname", 7, FALSE)))
+  if ((svp = hv_fetchs(hv, "varname", FALSE)))
     varname = *svp;
-  if ((svp = hv_fetch(hv, "freezer", 7, FALSE)))
+  if ((svp = hv_fetchs(hv, "freezer", FALSE)))
                style.freezer = *svp;
-  if ((svp = hv_fetch(hv, "toaster", 7, FALSE)))
+  if ((svp = hv_fetchs(hv, "toaster", FALSE)))

       style.toaster = *svp;
-  if ((svp = hv_fetch(hv, "deepcopy", 8, FALSE)))
+  if ((svp = hv_fetchs(hv, "deepcopy", FALSE)))
                style.deepcopy = SvTRUE(*svp);
-  if ((svp = hv_fetch(hv, "quotekeys", 9, FALSE)))
+  if ((svp = hv_fetchs(hv, "quotekeys", FALSE)))
                style.quotekeys = SvTRUE(*svp);
-              if ((svp = hv_fetch(hv, "trailingcomma", 13, FALSE)))
+               if ((svp = hv_fetchs(hv, "trailingcomma", FALSE)))
                style.trailingcomma = SvTRUE(*svp);
-  if ((svp = hv_fetch(hv, "bless", 5, FALSE)))
+               if ((svp = hv_fetchs(hv, "deparse", FALSE)))
+                 style.deparse = SvTRUE(*svp);
+  if ((svp = hv_fetchs(hv, "bless", FALSE)))
                style.bless = *svp;
-  if ((svp = hv_fetch(hv, "maxdepth", 8, FALSE)))
+  if ((svp = hv_fetchs(hv, "maxdepth", FALSE)))
                style.maxdepth = SvIV(*svp);
-  if ((svp = hv_fetch(hv, "maxrecurse", 10, FALSE)))
+  if ((svp = hv_fetchs(hv,
 "maxrecurse", FALSE)))
                style.maxrecurse = SvIV(*svp);
-  if ((svp = hv_fetch(hv, "sortkeys", 8, FALSE))) {
+  if ((svp = hv_fetchs(hv, "sortkeys", FALSE))) {
                SV *sv = *svp;
                if (! SvTRUE(sv))
                   style.sortkeys = NULL;
@@ -1525,9 +1607,10 @@ Data_Dumper_Dumpxs(href, ...)
     }
     else {
   STRLEN nchars;
-   sv_setpvn(name, "$", 1);
+    sv_setpvs(name, "$");
   sv_catsv(name, varname);
```

```
-   nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%"IVdf, (IV)(i+1));
+   nchars = my_snprintf(tmpbuf, sizeof(tmpbuf), "%" IVdf,
+                                                (IV)(i+1));
   sv_catpvn(name, tmpbuf, nchars);
      }

@@ -1575,7 +1658,7 @@ Data_Dumper_Dumpxs(href, ...)
   sv_catpvs(retval, ";");
                     sv_catsv(retval, style.sep);
      }
-      sv_setpvn(valstr, "", 0);
+      SvPVCLEAR(valstr);
      if (gimme == G_ARRAY) {
   XPUSHs(sv_2mortal(retval));
    if (i < imax) /* not the last time thro ? */
diff --git a/t/bugs.t b/t/bugs.t
index a440b0a..5db82da 100644
--- a/t/bugs.t
+++ b/t/bugs.t
@@ -12,7 +12,7 @@ BEGIN {
}

use strict;
-use Test::More tests => 15;
+use Test::More tests => 24;
use Data::Dumper;

{
@@ -144,4 +144,39 @@ SKIP: {
 &$tests;
}

+{ # https://rt.perl.org/Ticket/Display.html?id=128524
+    my $want;
+    my $runtime = "runtime";
+    my $requires = "requires";
+    utf8::upgrade(my $uruntime = $runtime);
+    utf8::upgrade(my $urequires = $requires);
+    for my $run ($runtime, $uruntime) {
+        for my $req ($requires, $urequires) {
+            my $data = { $run => { $req => { foo => "bar" } } };
+            local $Data::Dumper::Useperl = 1;
+            # we want them all the same
+            defined $want or $want = Dumper($data);
+            is(Dumper( $data ), $want, "utf-8 indents");
+          SKIP:
+            {
+                defined &Data::Dumper::Dumpxs
```

```
+
        or skip "No XS available", 1;
+               local $Data::Dumper::Useperl = 0;
+               is(Dumper( $data ), $want, "utf8-indents");
+           }
+       }
+   }
+}
+
+# RT#130487 - stack management bug in XS deparse
+SKIP: {
+    skip "No XS available", 1 if !defined &Data::Dumper::Dumpxs;
+    sub rt130487_args { 0 + @_ }
+    my $code = sub {};
+    local $Data::Dumper::Useperl = 0;
+    local $Data::Dumper::Deparse = 1;
+    my $got = rt130487_args( Dumper($code) );
+    is($got, 1, "stack management in XS deparse works, rt 130487");
+}
+
# EOF
diff --git a/t/deparse.t b/t/deparse.t
index c281fce..cddde8c 100644
--- a/t/deparse.t
+++ b/t/deparse.t
@@ -15,7 +15,7 @@ BEGIN {
use strict;

use Data::Dumper;
-use Test::More tests =>  8;
+use Test::More tests =>  16;
use lib qw( ./t/lib );
use Testing qw( _dumptostr );

@@ -24,7 +24,9 @@ use Testing qw( _dumptostr );

note("\$Data::Dumper::Deparse and Deparse()");

-{
+for my $useperl (0, 1) {
+    local $Data::Dumper::Useperl
 = $useperl;
+
    my ($obj, %dumps, $deparse, $starting);
    use strict;
    my $struct = { foo => "bar\nbaz", quux => sub { "fleem" } };
@@ -46,11 +48,11 @@ note("\$Data::Dumper::Deparse and Deparse()");
    $dumps{'objzero'} = _dumptostr($obj);
```

```
   is($dumps{'noprev'}, $dumps{'dddzero'},
-       "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent");
+       "No previous setting and \$Data::Dumper::Deparse = 0 are equivalent (useperl=$useperl)");
   is($dumps{'noprev'}, $dumps{'objempty'},
-       "No previous setting and Deparse() are equivalent");
+       "No previous setting and Deparse() are equivalent (useperl=$useperl)");
   is($dumps{'noprev'}, $dumps{'objzero'},
-       "No previous setting and Deparse(0) are equivalent");
+       "No previous setting and Deparse(0) are equivalent (useperl=$useperl)");

   local $Data::Dumper::Deparse = 1;
   $obj = Data::Dumper->new( [ $struct ] );
@@ -62,19 +64,19 @@ note("\$Data::Dumper::Deparse
 and Deparse()");
   $dumps{'objone'} = _dumptostr($obj);

   is($dumps{'dddtrue'}, $dumps{'objone'},
-       "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent");
+       "\$Data::Dumper::Deparse = 1 and Deparse(1) are equivalent (useperl=$useperl)");

   isnt($dumps{'dddzero'}, $dumps{'dddtrue'},
-       "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1");
+       "\$Data::Dumper::Deparse = 0 differs from \$Data::Dumper::Deparse = 1 (useperl=$useperl)");

   like($dumps{'dddzero'},
        qr/quux.*?sub.*?DUMMY/s,
-       "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef");
+       "\$Data::Dumper::Deparse = 0 reports DUMMY instead of deparsing coderef (useperl=$useperl)");
   unlike($dumps{'dddtrue'},
        qr/quux.*?sub.*?DUMMY/s,
-       "\$Data::Dumper::Deparse = 1 does not report DUMMY");
+       "\$Data::Dumper::Deparse = 1 does not report DUMMY (useperl=$useperl)");
   like($dumps{'dddtrue'},
        qr/quux.*?sub.*?use\sstrict.*?fleem/s,
-       "\$Data::Dumper::Deparse = 1 deparses coderef");
+       "\$Data::Dumper::Deparse = 1 deparses coderef (useperl=$useperl)");
}

--
2.9.3

Found in path(s):
* /perl-Data-Dumper-2.167-399.el8.src.rpm-cosi-expand-archive-lxnDj2VA/Data-Dumper-2.161-Upgrade-to-2.167.patch
No license file was found, but licenses were detected in source scan.

/*
```

```
------------------------------------------------------------------------

  ppport.h -- Perl/Pollution/Portability Version 3.31

  Automatically created by Devel::PPPort running under perl 5.022001.

  Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
  includes in parts/inc/ instead.

  Use 'perldoc ppport.h' to view the documentation below.

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

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.31

=head1 SYNOPSIS

 perl ppport.h [options] [source files]

 Searches current directory for files if no [source files] are given

 --help                  show short help

 --version               show version

 --patch=file            write one patch file with changes
 --copy=suffix           write changed copies with suffix
 --diff=program          use diff program and options

 --compat-version=version
   provide compatibility with Perl version
 --cplusplus             accept C++ comments

 --quiet                 don't output anything except fatal errors
 --nodiag                don't show diagnostics
 --nohints               don't show hints
 --nochanges             don't suggest changes
 --nofilter              don't filter input files

 --strip                 strip all script and doc functionality from
                         ppport.h
```

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given,
a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given

Perl version. The default is to check for compatibility with Perl
version 5.003.
 You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This
 reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across
 differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

  perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in

earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or
more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables
 will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

  #define NEED_function
  #define NEED_variable

For a global function or variable (used in multiple source files),
use:

  #define NEED_function_GLOBAL
  #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

  Function / Variable   Static Request   Global Request

  PL_parser   NEED_PL_parser   NEED_PL_parser_GLOBAL
  PL_signals   NEED_PL_signals   NEED_PL_signals_GLOBAL
  caller_cx()   NEED_caller_cx   NEED_caller_cx_GLOBAL
   eval_pv()   NEED_eval_pv   NEED_eval_pv_GLOBAL
  grok_bin()   NEED_grok_bin   NEED_grok_bin_GLOBAL
  grok_hex()   NEED_grok_hex   NEED_grok_hex_GLOBAL
  grok_number()   NEED_grok_number   NEED_grok_number_GLOBAL
  grok_numeric_radix()   NEED_grok_numeric_radix   NEED_grok_numeric_radix_GLOBAL
  grok_oct()   NEED_grok_oct   NEED_grok_oct_GLOBAL
  load_module()   NEED_load_module   NEED_load_module_GLOBAL
  mg_findext()   NEED_mg_findext   NEED_mg_findext_GLOBAL
  my_snprintf()   NEED_my_snprintf   NEED_my_snprintf_GLOBAL
  my_sprintf()   NEED_my_sprintf   NEED_my_sprintf_GLOBAL
  my_strlcat()   NEED_my_strlcat   NEED_my_strlcat_GLOBAL
  my_strlcpy()   NEED_my_strlcpy   NEED_my_strlcpy_GLOBAL
   newCONSTSUB()   NEED_newCONSTSUB   NEED_newCONSTSUB_GLOBAL
  newRV_noinc()   NEED_newRV_noinc   NEED_newRV_noinc_GLOBAL
  newSV_type()   NEED_newSV_type   NEED_newSV_type_GLOBAL
  newSVpvn_flags()   NEED_newSVpvn_flags   NEED_newSVpvn_flags_GLOBAL

```
  newSVpvn_share()        NEED_newSVpvn_share        NEED_newSVpvn_share_GLOBAL
  pv_display()            NEED_pv_display            NEED_pv_display_GLOBAL
  pv_escape()             NEED_pv_escape             NEED_pv_escape_GLOBAL
  pv_pretty()             NEED_pv_pretty             NEED_pv_pretty_GLOBAL
  sv_2pv_flags()          NEED_sv_2pv_flags          NEED_sv_2pv_flags_GLOBAL
  sv_2pvbyte()            NEED_sv_2pvbyte            NEED_sv_2pvbyte_GLOBAL
  sv_catpvf_mg()          NEED_sv_catpvf_mg          NEED_sv_catpvf_mg_GLOBAL
  sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
   sv_pvn_force_flags()     NEED_sv_pvn_force_flags      NEED_sv_pvn_force_flags_GLOBAL
  sv_setpvf_mg()          NEED_sv_setpvf_mg          NEED_sv_setpvf_mg_GLOBAL
  sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
  sv_unmagicext()         NEED_sv_unmagicext         NEED_sv_unmagicext_GLOBAL
  vload_module()          NEED_vload_module          NEED_vload_module_GLOBAL
  vnewSVpvf()             NEED_vnewSVpvf             NEED_vnewSVpvf_GLOBAL
  warner()                NEED_warner                NEED_warner_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

```
  #define DPPP_NAMESPACE MyOwnNamespace_
  #include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h>
 on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

```
  perl ppport.h
```

The result will usually be a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could

use something like this:

  perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

  perl ppport.h --nochanges

You can specify a different C<diff> program or options, using
the C<--diff> option:

   perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

  perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function,
use:

  perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a regular expression,
you can use

  perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

  perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions
of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
file a bug report here: L<https://github.com/mhx/Devel-PPPort/issues/>

Please

include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

```
# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.31;

my %opt = (
 quiet     => 0,
 diag      => 1,
 hints     => 1,
 changes   => 1,
 cplusplus => 0,
 filter
    => 1,
 strip     => 0,
 version   => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/'.'*';
my $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt, qw(
   help quiet diag! filter! hints! changes! cplusplus strip version
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}

if ($opt{version}) {
 print "This is $0 $VERSION.\n";
 exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};
```

```
if (exists $opt{'compat-version'}) {
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
  }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
 $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
            ? ( $1 => {
                ($2               ? ( base     => $2 ) : ()),
                ($3               ? ( todo     => $3 ) : ()),
                (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
               } )
            : die "invalid spec: $_" } qw(
ASCII_TO_NEED||5.007001|n
AvFILLp|5.004050||p
AvFILL|||
BhkDISABLE||5.021008|
BhkENABLE||5.021008|
BhkENTRY_set||5.021008|
BhkENTRY|||
BhkFLAGS|||
CALL_BLOCK_HOOKS|||
CLASS|||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
CopFILEAV|5.006000||p
CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002|5.004050|p
```

Copy|||
CvPADLIST||5.008001|
CvSTASH|||
CvWEAKOUTSIDE|||
DEFSV_set|5.010001||p
DEFSV|5.004050||p
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvAV|||
GvCV|||
GvHV|||
GvSVn|5.009003||p
GvSV|||
Gv_AMupdate||5.011000|
HEf_SVKEY|5.003070||p
HeHASH||5.003070|
HeKEY||5.003070|
HeKLEN||5.003070|
HePV||5.004000|
HeSVKEY_force||5.003070|
HeSVKEY_set||5.004000|
HeSVKEY||5.003070|
HeUTF8|5.010001|5.008000|p
HeVAL||5.003070|
HvENAMELEN||5.015004|
HvENAMEUTF8||5.015004|
HvENAME||5.013007|
HvNAMELEN_get|5.009003||p
HvNAMELEN||5.015004|
HvNAMEUTF8||5.015004|
HvNAME_get|5.009003||p
HvNAME|||

INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LINKLIST||5.013006|
LVRET|||
MARK|||
MULTICALL||5.021008|
MUTABLE_PTR|5.010001||p
MUTABLE_SV|5.010001||p
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002|5.004050|p
Move|||
NATIVE_TO_NEED||5.007001|n
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p
Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||
OP_CLASS||5.013007|
OP_DESC||5.007003|
OP_NAME||5.007003|
OP_TYPE_IS_OR_WAS||5.019010|
OP_TYPE_IS||5.019007|
ORIGMARK|||
OpHAS_SIBLING||5.021007|

OpSIBLING_set||5.021007|
OpSIBLING||5.021007|
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SVl|||
PAD_SV|||
PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_BCDVERSION|5.021008||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.003070||p
PERL_INT_MAX|5.003070||p
PERL_INT_MIN|5.003070||p
PERL_LONG_MAX|5.003070||p
PERL_LONG_MIN|5.003070||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p
PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.021008||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.021008||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.021008||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.021008||p
PERL_MAGIC_pos|5.007002||p

PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p
PERL_QUAD_MAX|5.003070||p
PERL_QUAD_MIN|5.003070||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.003070||p
PERL_SHORT_MIN|5.003070||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3||5.006000|
PERL_SYS_INIT|||
PERL_SYS_TERM||5.021008|
PERL_UCHAR_MAX|5.003070||p

PERL_UCHAR_MIN|5.003070||p
PERL_UINT_MAX|5.003070||p
PERL_UINT_MIN|5.003070||p
PERL_ULONG_MAX|5.003070||p
PERL_ULONG_MIN|5.003070||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
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xs_version_bootcheck|||
yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{todo};
   print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint, $define,
 $function);
```

```
sub find_api
{
 my $code = shift;
 $code =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | "[^"\\]*(?:\\.[^"\\]*)*"
 | '[^'\\]*(?:\\.[^'\\]*)*' }{}egsx;
 grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>) {
 if ($hint) {
   my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
   if (m{^\s*\*\s(.*?)\s*$}) {
     for (@{$hint->[1]}) {
       $h->{$_} ||= '';  # suppress warning with older perls
       $h->{$_} .= "$1\n";
     }
   }
   else { undef $hint }
 }

 $hint = [$1, [split /,?\s+/, $2]]
     if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

 if ($define) {
   if ($define->[1] =~ /\\$/) {
     $define->[1] .= $_;
   }
   else {
     if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
       my @n = find_api($define->[1]);
       push @{$depends{$define->[0]}}, @n if @n
     }
     undef $define;
   }
 }

 $define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

 if ($function)
 {
   if (/^}/) {
     if (exists $API{$function->[0]}) {
       my @n = find_api($function->[1]);
       push @{$depends{$function->[0]}}, @n if @n
     }
     undef $function;
```

```
  }
  else {
    $function->[1] .= $_;
  }
 }

 $function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

 $replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
 $replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
 $replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
 $replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

 if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
   my @deps = map { s/\s+//g; $_ } split /,/, $3;
   my $d;
   for $d (map { s/\s+//g; $_ } split /,/, $1) {
     push @{$depends{$d}}, @deps;
   }
 }

 $need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

for (values %depends) {
 my %s;
 $_ = [sort grep !$s{$_}++,
 @$_];
}

if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $f =~ /$match/;
   print "\n=== $f ===\n\n";
   my $info = 0;
   if ($API{$f}{base} || $API{$f}{todo}) {
     my $base = format_version($API{$f}{base} || $API{$f}{todo});
     print "Supported at least starting from perl-$base.\n";
     $info++;
   }
   if ($API{$f}{provided}) {
     my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
     print "Support by $ppport provided back to perl-$todo.\n";
     print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
     print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
```

```
    print "\n$hints{$f}" if exists $hints{$f};
    print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
    $info++;
  }
  print "No portability information available.\n"
 unless $info;
  $count++;
 }
 $count or print "Found no API matching '$opt{'api-info'}'.";
 print "\n";
 exit 0;
}

if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
  next unless $API{$f}{provided};
  my @flags;
  push @flags, 'explicit' if exists $need{$f};
  push @flags, 'depend'   if exists $depends{$f};
  push @flags, 'hint'     if exists $hints{$f};
  push @flags, 'warning'  if exists $warnings{$f};
  my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
  print "$f$flags\n";
 }
 exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
 my %seen;
 for (@ARGV) {
  if (-e) {
    if (-f) {
      push @files, $_ unless $seen{$_}++;
    }
    else { warn "'$_' is not a file.\n" }
  }
  else {
    my @new = grep { -f } glob $_
       or warn "'$_' does not exist.\n";
    push @files, grep { !$seen{$_}++ } @new;
   }
 }
}
```

```
else {
 eval {
  require File::Find;
  File::Find::find(sub {
    $File::Find::name =~ /($srcext)$/i
        and push @files, $File::Find::name;
  }, '.');
 };
 if ($@) {
  @files = map { glob "*$_" } @srcext;
 }
}

if (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
  my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
  push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
  warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
 }
 @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;

for $filename (@files) {
 unless (open IN, "<$filename") {
  warn "Unable to read from $filename: $!\n";
  next;
 }

 info("Scanning $filename ...");

 my $c = do { local $/; <IN> };
 close IN;

  my %file = (orig => $c, changes => 0);

 # Temporarily remove C/XS comments and strings from the code
 my @ccom;
```

```
$c =~ s{
  ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
  | ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
  | "[^"\\]*(?:\\.[^"\\]*)*"
  | '[^'\\]*(?:\\.[^'\\]*)*'
  | / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
}{ defined $2 and push @ccom, $2;
   defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

$file{ccom} = \@ccom;
$file{code} = $c;
$file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

my $func;

for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
          }
        }
        for ($func, @deps) {
          $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
```

```
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else { warning("Possibly wrong #define $1 in $filename") }
 }

 for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push
@{$global{$_}{$func}}, $filename;
  }
 }

 $files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
 if (@{$global{needs}{$need}} > 1) {
  my @targets = @{$global{needs}{$need}};
  my @t = grep $files{$_}{needed_global}{$need}, @targets;
  @targets = @t if @t;
  @t = grep /\.xs$/i, @targets;
  @targets = @t if @t;
  my $target = shift @targets;
  $files{$target}{needs}{$need} = 'global';
  for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
  }
 }
}

for $filename (@files) {
 exists $files{$filename} or next;

 info("=== Analyzing $filename ===");

 my %file = %{$files{$filename}};
 my $func;
 my $c = $file{code};
 my $warnings = 0;

 for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
                    { $1 . ($2
```

```
eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
                          {$func$1(}g);
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
    print "*** WARNING: Uses $func, which may not be portable
below perl ",
          format_version($API{$func}{todo}), ", even with '$ppport'\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
```

```
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = '';
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }
    elsif
($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = '';

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = '';
```

```
    $file{changes}++;
  }

  unless
($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
                   || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                   || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                   || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s, which is
not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
```

```
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes} = 1;
           goto fallback;
        }
      }
      mydiff(\*PATCH, $filename, $c);
    }
    else {
fallback:
      info("Suggested changes:");
      mydiff(\*STDOUT, $filename, $c);
    }
  }
  else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
  }
 }
 else {
  info("Looks good");
 }
}
```

```
close PATCH if $patch_opened;

exit 0;


sub try_use { eval "use @_;"; return $@ eq '' }

sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
   $diff = run_diff($opt{diff}, $file, $str);
 }

 if (!defined $diff and try_use('Text::Diff')) {
   $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
   $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
   $diff = run_diff('diff -u', $file, $str);
 }

 if (!defined $diff) {
   $diff = run_diff('diff', $file, $str);
 }

 if (!defined $diff) {
   error("Cannot
 generate a diff. Please install Text::Diff or use --copy.");
   return;
 }

 print F $diff;
}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dpppptemp';
 my $suf = 'aaa';
 my $diff = '';
```

```
 local *F;

 while (-e "$tmp.$suf") { $suf++ }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
   print F $str;
   close F;

   if (open F, "$prog $file $tmp |") {
     while (<F>) {
       s/\Q$tmp\E/$file.patched/;
       $diff .= $_;
     }
     close F;
     unlink $tmp;
     return $diff;
   }

   unlink $tmp;
 }
 else {
   error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
}

sub rec_depend
{
 my($func, $seen) = @_;
 return () unless exists $depends{$func};
 $seen = {%{$seen||{}}};
 return () if $seen->{$func}++;
 my %s;
 grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
 my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
   return ($1, $2, $3);
 }
 elsif ($ver !~ /^\d+\.[\d_]+$/) {
    die "cannot parse version '$ver'\n";
 }
```

```
 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "cannot parse version '$ver'\n";
   }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "invalid version '$ver'\n";
   }
   $s /= 10;

   $ver = sprintf "%d.%03d", $r, $v;
   $s > 0 and $ver .= sprintf "_%02d", $s;

   return $ver;
 }

 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
 $opt{quiet} and return;
 print @_, "\n";
}
```

```
sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
 $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub
 hint
{
 $opt{quiet} and return;
 my $func = shift;
 my $rv = 0;
 if (exists $warnings{$func} && !$given_warnings{$func}++) {
   my $warn = $warnings{$func};
   $warn =~ s!^!*** !mg;
   print "*** WARNING: $func\n", $warn;
   $rv++;
 }
 if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
   my $hint = $hints{$func};
   $hint =~ s/^/   /mg;
   print "   --- hint for $func ---\n", $hint;
 }
 $rv;
}

sub usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;
```

```
Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}

sub strip
{
 my $self = do { local(@ARGV,$/)=($0); <> };
 my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
 $copy =~ s/^(?=\S+)/    /gms;
 $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
 $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV && \$ARGV[0]
 eq '--unstrip') {
 eval { require Devel::PPPort };
 \$@ and die "Cannot require Devel::PPPort, please install.\\n";
 if (eval \$Devel::PPPort::VERSION < $VERSION) {
   die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
     . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
     . "Please install a newer version, or --unstrip will not work.\\n";
 }
 Devel::PPPort::WriteFile(\$0);
 exit 0;
}
print <<END;

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

 \$^X \$0 --unstrip

END
/ms;
 my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
 $c =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | ( "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^'\\]*(?:\\.[^'\\]*)*' )
 | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
 $c =~ s!\s+$!!mg;
 $c =~ s!^$LF!!mg;
```

```
 $c =~ s!^\s*#\s*!#!mg;
 $c =~ s!^\s+!!mg;

 open OUT, ">$0" or die "cannot strip $0: $!\n";
  print OUT "$pl$c\n";

 exit 0;
}

__DATA__
*/
```

Found in path(s):
* /perl-Data-Dumper-2.167-399.el8.src.rpm-cosi-expand-archive-lxnDj2VA/Data-Dumper-2.161.tar.gz-cosi-expand-archive-6LzdXmyr/Data-Dumper-2.161/ppport.h
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Found in path(s):
* /perl-Data-Dumper-2.167-399.el8.src.rpm-cosi-expand-archive-lxnDj2VA/perl-Data-Dumper.spec

1.77 perl-getopt-long 2.50-4.el8

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archive-HBNXGx7V/Storable-3.11/README
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---
abstract: 'persistence for Perl data structures'
author:
 - 'Perl 5 Porters'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Storable
no_index:
 directory:
   - t
   - inc
provides:
 Storable:
   file: __Storable__.pm
   version: '3.11'
requires:
 XSLoader: '0'
resources:
 bugtracker: http://rt.perl.org/perlbug/
version: '3.11'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
* /perl-Storable-3.11-3.el8.src.rpm-cosi-expand-archive-8tnIkdhI/Storable-3.11_repackaged.tar.gz-cosi-expand-archive-HBNXGx7V/Storable-3.11/META.yml
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/*
----

   ppport.h -- Perl/Pollution/Portability Version 3.40

Automatically created by Devel::PPPort running under perl 5.028000.

Do NOT edit this file directly! -- Edit PPPort_pm.PL and the
includes in parts/inc/ instead.

Use 'perldoc ppport.h' to view the documentation below.

SKIP

=pod

=head1 NAME

ppport.h - Perl/Pollution/Portability version 3.40

=head1 SYNOPSIS

perl ppport.h [options] [source files]

Searches current directory for files if no [source files] are given

--help show short help

--version show version

--patch=file write one patch file with changes
--copy=suffix write changed copies with suffix
--diff=program use diff program and options

--compat-version=version
provide compatibility with Perl version
--cplusplus accept C++ comments

--quiet don't output anything except fatal errors
--nodiag don't show diagnostics
--nohints don't show hints
--nochanges don't suggest changes
--nofilter don't filter input files

--strip strip all script and doc functionality
from ppport.h

--list-provided list provided API
--list-unsupported list unsupported API
--api-info=name show Perl API portability information

=head1 COMPATIBILITY

This version of F<ppport.h> is designed to support operation with Perl
installations back to 5.003, and has been tested up to 5.20.

=head1 OPTIONS

=head2 --help

Display a brief usage summary.

=head2 --version

Display the version of F<ppport.h>.

=head2 --patch=I<file>

If this option is given,
 a single patch file will be created if
any changes are suggested. This requires a working diff program
to be installed on your system.

=head2 --copy=I<suffix>

If this option is given, a copy of each file will be saved with
the given suffix that contains the suggested changes. This does
not require any external programs. Note that this does not
automagically add a dot between the original filename and the
suffix. If you want the dot, you have to include it in the option
argument.

If neither C<--patch> or C<--copy> are given, the default is to
simply print the diffs for each file. This requires either
C<Text::Diff> or a C<diff> program to be installed.

=head2 --diff=I<program>

Manually set the diff program and options to use. The default
is to use C<Text::Diff>, when installed, and output unified
context diffs.

=head2 --compat-version=I<version>

Tell F<ppport.h> to check for compatibility with the given
Perl version. The default is to check for compatibility with Perl
version 5.003.

You can use this option to reduce the output
of F<ppport.h> if you intend to be backward compatible only
down to a certain Perl version.

=head2 --cplusplus

Usually, F<ppport.h> will detect C++ style comments and
replace them with C style comments for portability reasons.
Using this option instructs F<ppport.h> to leave C++
comments untouched.

=head2 --quiet

Be quiet. Don't print anything except fatal errors.

=head2 --nodiag

Don't output any diagnostic messages. Only portability
alerts will be printed.

=head2 --nohints

Don't output any hints. Hints often contain useful portability
notes. Warnings will still be displayed.

=head2 --nochanges

Don't suggest any changes. Only give diagnostic output and hints
unless these are also deactivated.

=head2 --nofilter

Don't filter the list of input files. By default, files not looking
like source code (i.e. not *.xs, *.c, *.cc, *.cpp or *.h) are skipped.

=head2 --strip

Strip all script and documentation functionality from F<ppport.h>.
This
reduces the size of F<ppport.h> dramatically and may be useful
if you want to include F<ppport.h> in smaller modules without
increasing their distribution size too much.

The stripped F<ppport.h> will have a C<--unstrip> option that allows
you to undo the stripping, but only if an appropriate C<Devel::PPPort>
module is installed.

=head2 --list-provided

Lists the API elements for which compatibility is provided by
F<ppport.h>. Also lists if it must be explicitly requested,
if it has dependencies, and if there are hints or warnings for it.

=head2 --list-unsupported

Lists the API elements that are known not to be supported by
F<ppport.h> and below which version of Perl they probably
won't be available or work.

=head2 --api-info=I<name>

Show portability information for API elements matching I<name>.
If I<name> is surrounded by slashes, it is interpreted as a regular
expression.

=head1 DESCRIPTION

In order for a Perl extension (XS) module to be as portable as possible
across
 differing versions of Perl itself, certain steps need to be taken.

=over 4

=item *

Including this header is the first major one. This alone will give you
access to a large part of the Perl API that hasn't been available in
earlier Perl releases. Use

  perl ppport.h --list-provided

to see which API elements are provided by ppport.h.

=item *

You should avoid using deprecated parts of the API. For example, using
global Perl variables without the C<PL_> prefix is deprecated. Also,
some API functions used to have a C<perl_> prefix. Using this form is
also deprecated. You can safely use the supported API, as F<ppport.h>
will provide wrappers for older Perl versions.

=item *

If you use one of a few functions or variables that were not present in
earlier versions of Perl, and that can't be provided using a macro, you
have to explicitly request support for these functions by adding one or

more C<#define>s in your source code before the inclusion of F<ppport.h>.

These functions or variables
 will be marked C<explicit> in the list shown
by C<--list-provided>.

Depending on whether you module has a single or multiple files that
use such functions or variables, you want either C<static> or global
variants.

For a C<static> function or variable (used only in a single source
file), use:

  #define NEED_function
  #define NEED_variable

For a global function or variable (used in multiple source files),
use:

  #define NEED_function_GLOBAL
  #define NEED_variable_GLOBAL

Note that you mustn't have more than one global request for the
same function or variable in your project.

  Function / Variable   Static Request   Global Request

  PL_parser   NEED_PL_parser   NEED_PL_parser_GLOBAL
  PL_signals   NEED_PL_signals   NEED_PL_signals_GLOBAL
  SvRX()   NEED_SvRX   NEED_SvRX_GLOBAL
   caller_cx()   NEED_caller_cx   NEED_caller_cx_GLOBAL
  croak_xs_usage()   NEED_croak_xs_usage   NEED_croak_xs_usage_GLOBAL
  die_sv()   NEED_die_sv   NEED_die_sv_GLOBAL
  eval_pv()   NEED_eval_pv   NEED_eval_pv_GLOBAL
  grok_bin()   NEED_grok_bin   NEED_grok_bin_GLOBAL
  grok_hex()   NEED_grok_hex   NEED_grok_hex_GLOBAL
  grok_number()   NEED_grok_number   NEED_grok_number_GLOBAL
  grok_numeric_radix()   NEED_grok_numeric_radix   NEED_grok_numeric_radix_GLOBAL
  grok_oct()   NEED_grok_oct   NEED_grok_oct_GLOBAL
  gv_fetchpvn_flags()   NEED_gv_fetchpvn_flags   NEED_gv_fetchpvn_flags_GLOBAL
  load_module()   NEED_load_module   NEED_load_module_GLOBAL
  mess()   NEED_mess   NEED_mess_GLOBAL
   mess_nocontext()   NEED_mess_nocontext   NEED_mess_nocontext_GLOBAL
  mess_sv()   NEED_mess_sv   NEED_mess_sv_GLOBAL
  mg_findext()   NEED_mg_findext   NEED_mg_findext_GLOBAL
  my_snprintf()   NEED_my_snprintf   NEED_my_snprintf_GLOBAL
  my_sprintf()   NEED_my_sprintf   NEED_my_sprintf_GLOBAL
  my_strlcat()   NEED_my_strlcat   NEED_my_strlcat_GLOBAL

```
  my_strlcpy()            NEED_my_strlcpy            NEED_my_strlcpy_GLOBAL
  newCONSTSUB()           NEED_newCONSTSUB           NEED_newCONSTSUB_GLOBAL
  newRV_noinc()           NEED_newRV_noinc           NEED_newRV_noinc_GLOBAL
  newSV_type()            NEED_newSV_type            NEED_newSV_type_GLOBAL
  newSVpvn_flags()        NEED_newSVpvn_flags        NEED_newSVpvn_flags_GLOBAL
  newSVpvn_share()        NEED_newSVpvn_share        NEED_newSVpvn_share_GLOBAL
  pv_display()
          NEED_pv_display            NEED_pv_display_GLOBAL
  pv_escape()             NEED_pv_escape             NEED_pv_escape_GLOBAL
  pv_pretty()             NEED_pv_pretty             NEED_pv_pretty_GLOBAL
  sv_2pv_flags()          NEED_sv_2pv_flags          NEED_sv_2pv_flags_GLOBAL
  sv_2pvbyte()            NEED_sv_2pvbyte            NEED_sv_2pvbyte_GLOBAL
  sv_catpvf_mg()          NEED_sv_catpvf_mg          NEED_sv_catpvf_mg_GLOBAL
  sv_catpvf_mg_nocontext()  NEED_sv_catpvf_mg_nocontext  NEED_sv_catpvf_mg_nocontext_GLOBAL
  sv_pvn_force_flags()    NEED_sv_pvn_force_flags    NEED_sv_pvn_force_flags_GLOBAL
  sv_setpvf_mg()          NEED_sv_setpvf_mg          NEED_sv_setpvf_mg_GLOBAL
  sv_setpvf_mg_nocontext()  NEED_sv_setpvf_mg_nocontext  NEED_sv_setpvf_mg_nocontext_GLOBAL
  sv_unmagicext()         NEED_sv_unmagicext         NEED_sv_unmagicext_GLOBAL
  vload_module()          NEED_vload_module          NEED_vload_module_GLOBAL
   vmess()                NEED_vmess                 NEED_vmess_GLOBAL
  vnewSVpvf()             NEED_vnewSVpvf             NEED_vnewSVpvf_GLOBAL
  warner()                NEED_warner                NEED_warner_GLOBAL
```

To avoid namespace conflicts, you can change the namespace of the
explicitly exported functions / variables using the C<DPPP_NAMESPACE>
macro. Just C<#define> the macro before including C<ppport.h>:

```
  #define DPPP_NAMESPACE MyOwnNamespace_
  #include "ppport.h"
```

The default namespace is C<DPPP_>.

=back

The good thing is that most of the above can be checked by running
F<ppport.h> on your source code. See the next section for
details.

=head1 EXAMPLES

To verify whether F<ppport.h> is needed for your module, whether you
should make any changes to your code, and whether any special defines
should be used, F<ppport.h> can be run as a Perl script to check your
source code. Simply say:

```
  perl ppport.h
```

The result will usually be

a list of patches suggesting changes
that should at least be acceptable, if not necessarily the most
efficient solution, or a fix for all possible problems.

If you know that your XS module uses features only available in
newer Perl releases, if you're aware that it uses C++ comments,
and if you want all suggestions as a single patch file, you could
use something like this:

  perl ppport.h --compat-version=5.6.0 --cplusplus --patch=test.diff

If you only want your code to be scanned without any suggestions
for changes, use:

  perl ppport.h --nochanges

You can specify a different C<diff> program or options, using
the C<--diff> option:

  perl ppport.h --diff='diff -C 10'

This would output context diffs with 10 lines of context.

If you want to create patched copies of your files instead, use:

  perl ppport.h --copy=.new

To display portability information for the C<newSVpvn> function,
use:

  perl ppport.h --api-info=newSVpvn

Since the argument to C<--api-info> can be a
regular expression,
you can use

  perl ppport.h --api-info=/_nomg$/

to display portability information for all C<_nomg> functions or

  perl ppport.h --api-info=/./

to display information for all known API elements.

=head1 BUGS

If this version of F<ppport.h> is causing failure during
the compilation of this module, please check if newer versions

of either this module or C<Devel::PPPort> are available on CPAN
before sending a bug report.

If F<ppport.h> was generated using the latest version of
C<Devel::PPPort> and is causing failure of this module, please
send a bug report to L<perlbug@perl.org|mailto:perlbug@perl.org>.

Please include the following information:

=over 4

=item 1.

The complete output from running "perl -V"

=item 2.

This file.

=item 3.

The name and version of the module you were trying to build.

=item 4.

A full log of the build that failed.

=item 5.

Any other information that you think could be relevant.

=back

For the latest version of this code, please
 get the C<Devel::PPPort>
module from CPAN.

=head1 COPYRIGHT

Version 3.x, Copyright (c) 2004-2013, Marcus Holland-Moritz.

Version 2.x, Copyright (C) 2001, Paul Marquess.

Version 1.x, Copyright (C) 1999, Kenneth Albanowski.

This program is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

```
=head1 SEE ALSO

See L<Devel::PPPort>.

=cut

use strict;

# Disable broken TRIE-optimization
BEGIN { eval '${^RE_TRIE_MAXBUF} = -1' if $] >= 5.009004 && $] <= 5.009005 }

my $VERSION = 3.40;

my %opt = (
 quiet     => 0,
 diag      => 1,
 hints     => 1,
 changes   => 1,
 cplusplus => 0,
 filter    => 1,
 strip     => 0,
 version   => 0,
);

my($ppport) = $0 =~ /([\w.]+)$/;
my $LF = '(?:\r\n|[\r\n])';   # line feed
my $HS = "[ \t]";             # horizontal whitespace

# Never use C comments in this file!
my $ccs  = '/'.'*';
my $cce  = '*'.'/';
my $rccs = quotemeta $ccs;
my $rcce = quotemeta $cce;

eval {
 require Getopt::Long;
 Getopt::Long::GetOptions(\%opt,
 qw(
   help quiet diag! filter! hints! changes! cplusplus strip version
   patch=s copy=s diff=s compat-version=s
   list-provided list-unsupported api-info=s
 )) or usage();
};

if ($@ and grep /^-/, @ARGV) {
 usage() if "@ARGV" =~ /^--?h(?:elp)?$/;
 die "Getopt::Long not found. Please don't use any options.\n";
}
```

```
if ($opt{version}) {
 print "This is $0 $VERSION.\n";
 exit 0;
}

usage() if $opt{help};
strip() if $opt{strip};

if (exists $opt{'compat-version'}) {
 my($r,$v,$s) = eval { parse_version($opt{'compat-version'}) };
 if ($@) {
   die "Invalid version number format: '$opt{'compat-version'}'\n";
 }
 die "Only Perl 5 is supported\n" if $r != 5;
 die "Invalid version number: $opt{'compat-version'}\n" if $v >= 1000 || $s >= 1000;
 $opt{'compat-version'} = sprintf "%d.%03d%03d", $r, $v, $s;
}
else {
 $opt{'compat-version'} = 5;
}

my %API = map { /^(\w+)\|([^|]*)\|([^|]*)\|(\w*)$/
             ? ( $1 => {
                 ($2
        ? ( base     => $2 ) : ()),
                 ($3                 ? ( todo     => $3 ) : ()),
                 (index($4, 'v') >= 0 ? ( varargs  => 1  ) : ()),
                 (index($4, 'p') >= 0 ? ( provided => 1  ) : ()),
                 (index($4, 'n') >= 0 ? ( nothxarg => 1  ) : ()),
               } )
             : die "invalid spec: $_" } qw(
ASCII_TO_NEED||5.007001|n
AvFILLp|5.004050||p
AvFILL|||
BhkDISABLE||5.024000|
BhkENABLE||5.024000|
BhkENTRY_set||5.024000|
BhkENTRY|||
BhkFLAGS|||
CALL_BLOCK_HOOKS|||
CLASS|||n
CPERLscope|5.005000||p
CX_CURPAD_SAVE|||
CX_CURPAD_SV|||
C_ARRAY_END|5.013002||p
C_ARRAY_LENGTH|5.008001||p
CopFILEAV|5.006000||p
```

CopFILEGV_set|5.006000||p
CopFILEGV|5.006000||p
CopFILESV|5.006000||p
CopFILE_set|5.006000||p
CopFILE|5.006000||p
CopSTASHPV_set|5.006000||p
CopSTASHPV|5.006000||p
CopSTASH_eq|5.006000||p
CopSTASH_set|5.006000||p
CopSTASH|5.006000||p
CopyD|5.009002|5.004050|p
Copy|||
CvPADLIST||5.008001|
CvSTASH|||
CvWEAKOUTSIDE|||
DECLARATION_FOR_LC_NUMERIC_MANIPULATION||5.021010|n
DEFSV_set|5.010001||p
DEFSV|5.004050||p
DO_UTF8||5.006000|
END_EXTERN_C|5.005000||p
ENTER|||
ERRSV|5.004050||p
EXTEND|||
EXTERN_C|5.005000||p
F0convert|||n
FREETMPS|||
GIMME_V||5.004000|n
GIMME|||n
GROK_NUMERIC_RADIX|5.007002||p
G_ARRAY|||
G_DISCARD|||
G_EVAL|||
G_METHOD|5.006001||p
G_NOARGS|||
G_SCALAR|||
G_VOID||5.004000|
GetVars|||
GvAV|||
GvCV|||
GvHV|||
GvSV|||
Gv_AMupdate||5.011000|
HEf_SVKEY|5.003070||p
HeHASH||5.003070|
HeKEY||5.003070|
HeKLEN||5.003070|
HePV||5.004000|
HeSVKEY_force||5.003070|

HeSVKEY_set||5.004000|
HeSVKEY||5.003070|
HeUTF8|5.010001|5.008000|p
HeVAL||5.003070|
HvENAMELEN||5.015004|
HvENAMEUTF8||5.015004|
HvENAME||5.013007|
HvNAMELEN_get|5.009003||p
HvNAMELEN||5.015004|
HvNAMEUTF8||5.015004|
HvNAME_get|5.009003||p
HvNAME|||
INT2PTR|5.006000||p
IN_LOCALE_COMPILETIME|5.007002||p
IN_LOCALE_RUNTIME|5.007002||p
IN_LOCALE|5.007002||p
IN_PERL_COMPILETIME|5.008001||p
IS_NUMBER_GREATER_THAN_UV_MAX|5.007002||p
IS_NUMBER_INFINITY|5.007002||p
IS_NUMBER_IN_UV|5.007002||p
IS_NUMBER_NAN|5.007003||p
IS_NUMBER_NEG|5.007002||p
IS_NUMBER_NOT_INT|5.007002||p
IVSIZE|5.006000||p
IVTYPE|5.006000||p
IVdf|5.006000||p
LEAVE|||
LINKLIST||5.013006|
LVRET|||
MARK|||
MULTICALL||5.024000|
MUTABLE_PTR|5.010001||p
MUTABLE_SV|5.010001||p
MY_CXT_CLONE|5.009002||p
MY_CXT_INIT|5.007003||p
MY_CXT|5.007003||p
MoveD|5.009002|5.004050|p
Move|||
NATIVE_TO_NEED||5.007001|n
NOOP|5.005000||p
NUM2PTR|5.006000||p
NVTYPE|5.006000||p
NVef|5.006001||p
NVff|5.006001||p
NVgf|5.006001||p
Newxc|5.009003||p
Newxz|5.009003||p
Newx|5.009003||p

Nullav|||
Nullch|||
Nullcv|||
Nullhv|||
Nullsv|||
OP_CLASS||5.013007|
OP_DESC||5.007003|
OP_NAME||5.007003|
OP_TYPE_IS_OR_WAS||5.019010|
OP_TYPE_IS||5.019007|
ORIGMARK|||
OpHAS_SIBLING|5.021007||p
OpLASTSIB_set|5.021011||p
OpMAYBESIB_set|5.021011||p
OpMORESIB_set|5.021011||p
OpSIBLING|5.021007||p
PAD_BASE_SV|||
PAD_CLONE_VARS|||
PAD_COMPNAME_FLAGS|||
PAD_COMPNAME_GEN_set|||
PAD_COMPNAME_GEN|||
PAD_COMPNAME_OURSTASH|||
PAD_COMPNAME_PV|||
PAD_COMPNAME_TYPE|||
PAD_RESTORE_LOCAL|||
PAD_SAVE_LOCAL|||
PAD_SAVE_SETNULLPAD|||
PAD_SETSV|||
PAD_SET_CUR_NOSAVE|||
PAD_SET_CUR|||
PAD_SVl|||
PAD_SV|||
PERLIO_FUNCS_CAST|5.009003||p
PERLIO_FUNCS_DECL|5.009003||p
PERL_ABS|5.008001||p
PERL_ARGS_ASSERT_CROAK_XS_USAGE|||p
PERL_BCDVERSION|5.024000||p
PERL_GCC_BRACE_GROUPS_FORBIDDEN|5.008001||p
PERL_HASH|5.003070||p
PERL_INT_MAX|5.003070||p
PERL_INT_MIN|5.003070||p
PERL_LONG_MAX|5.003070||p
PERL_LONG_MIN|5.003070||p
PERL_MAGIC_arylen|5.007002||p
PERL_MAGIC_backref|5.007002||p
PERL_MAGIC_bm|5.007002||p
PERL_MAGIC_collxfrm|5.007002||p
PERL_MAGIC_dbfile|5.007002||p

PERL_MAGIC_dbline|5.007002||p
PERL_MAGIC_defelem|5.007002||p
PERL_MAGIC_envelem|5.007002||p
PERL_MAGIC_env|5.007002||p
PERL_MAGIC_ext|5.007002||p
PERL_MAGIC_fm|5.007002||p
PERL_MAGIC_glob|5.024000||p
PERL_MAGIC_isaelem|5.007002||p
PERL_MAGIC_isa|5.007002||p
PERL_MAGIC_mutex|5.024000||p
PERL_MAGIC_nkeys|5.007002||p
PERL_MAGIC_overload_elem|5.024000||p
PERL_MAGIC_overload_table|5.007002||p
PERL_MAGIC_overload|5.024000||p
PERL_MAGIC_pos|5.007002||p
PERL_MAGIC_qr|5.007002||p
PERL_MAGIC_regdata|5.007002||p
PERL_MAGIC_regdatum|5.007002||p
PERL_MAGIC_regex_global|5.007002||p
PERL_MAGIC_shared_scalar|5.007003||p
PERL_MAGIC_shared|5.007003||p
PERL_MAGIC_sigelem|5.007002||p
PERL_MAGIC_sig|5.007002||p
PERL_MAGIC_substr|5.007002||p
PERL_MAGIC_sv|5.007002||p
PERL_MAGIC_taint|5.007002||p
PERL_MAGIC_tiedelem|5.007002||p
PERL_MAGIC_tiedscalar|5.007002||p
PERL_MAGIC_tied|5.007002||p
PERL_MAGIC_utf8|5.008001||p
PERL_MAGIC_uvar_elem|5.007003||p
PERL_MAGIC_uvar|5.007002||p
PERL_MAGIC_vec|5.007002||p
PERL_MAGIC_vstring|5.008001||p
PERL_PV_ESCAPE_ALL|5.009004||p
PERL_PV_ESCAPE_FIRSTCHAR|5.009004||p
PERL_PV_ESCAPE_NOBACKSLASH|5.009004||p
PERL_PV_ESCAPE_NOCLEAR|5.009004||p
PERL_PV_ESCAPE_QUOTE|5.009004||p
PERL_PV_ESCAPE_RE|5.009005||p
PERL_PV_ESCAPE_UNI_DETECT|5.009004||p
PERL_PV_ESCAPE_UNI|5.009004||p
PERL_PV_PRETTY_DUMP|5.009004||p
PERL_PV_PRETTY_ELLIPSES|5.010000||p
PERL_PV_PRETTY_LTGT|5.009004||p
PERL_PV_PRETTY_NOCLEAR|5.010000||p
PERL_PV_PRETTY_QUOTE|5.009004||p
PERL_PV_PRETTY_REGPROP|5.009004||p

PERL_QUAD_MAX|5.003070||p
PERL_QUAD_MIN|5.003070||p
PERL_REVISION|5.006000||p
PERL_SCAN_ALLOW_UNDERSCORES|5.007003||p
PERL_SCAN_DISALLOW_PREFIX|5.007003||p
PERL_SCAN_GREATER_THAN_UV_MAX|5.007003||p
PERL_SCAN_SILENT_ILLDIGIT|5.008001||p
PERL_SHORT_MAX|5.003070||p
PERL_SHORT_MIN|5.003070||p
PERL_SIGNALS_UNSAFE_FLAG|5.008001||p
PERL_SUBVERSION|5.006000||p
PERL_SYS_INIT3||5.006000|
PERL_SYS_INIT|||
PERL_SYS_TERM||5.024000|
PERL_UCHAR_MAX|5.003070||p
PERL_UCHAR_MIN|5.003070||p
PERL_UINT_MAX|5.003070||p
PERL_UINT_MIN|5.003070||p
PERL_ULONG_MAX|5.003070||p
PERL_ULONG_MIN|5.003070||p
PERL_UNUSED_ARG|5.009003||p
PERL_UNUSED_CONTEXT|5.009004||p
PERL_UNUSED_DECL|5.007002||p
PERL_UNUSED_RESULT|5.021001||p
PERL_UNUSED_VAR|5.007002||p
PERL_UQUAD_MAX|5.003070||p
PERL_UQUAD_MIN|5.003070||p
PERL_USE_GCC_BRACE_GROUPS|5.009004||p
PERL_USHORT_MAX|5.003070||p
PERL_USHORT_MIN|5.003070||p
PERL_VERSION|5.006000||p
PL_DBsignal|5.005000||p
PL_DBsingle|||pn
PL_DBsub|||pn
PL_DBtrace|||pn
PL_Sv|5.005000||p
PL_bufend|5.024000||p
PL_bufptr|5.024000||p
PL_check||5.006000|
PL_compiling|5.004050||p
PL_comppad_name||5.017004|
PL_comppad||5.008001|
PL_copline|5.024000||p
PL_curcop|5.004050||p
PL_curpad||5.005000|
PL_curstash|5.004050||p
PL_debstash|5.004050||p
PL_defgv|5.004050||p

PL_diehook|5.004050||p
PL_dirty|5.004050||p
PL_dowarn|||pn
PL_errgv|5.004050||p
PL_error_count|5.024000||p
PL_expect|5.024000||p
PL_hexdigit|5.005000||p
PL_hints|5.005000||p
PL_in_my_stash|5.024000||p
PL_in_my|5.024000||p
PL_keyword_plugin||5.011002|
PL_last_in_gv|||n
PL_laststatval|5.005000||p
PL_lex_state|5.024000||p
PL_lex_stuff|5.024000||p
PL_linestr|5.024000||p
PL_modglobal||5.005000|n
PL_na|5.004050||pn
PL_no_modify|5.006000||p
PL_ofsgv|||n
PL_opfreehook||5.011000|n
PL_parser|5.009005||p
PL_peepp||5.007003|n
PL_perl_destruct_level|5.004050||p
PL_perldb|5.004050||p
PL_ppaddr|5.006000||p
PL_rpeepp||5.013005|n
PL_rsfp_filters|5.024000||p
PL_rsfp|5.024000||p
PL_rs|||n
PL_signals|5.008001||p
PL_stack_base|5.004050||p
PL_stack_sp|5.004050||p
PL_statcache|5.005000||p
PL_stdingv|5.004050||p
PL_sv_arenaroot|5.004050||p
PL_sv_no|5.004050||pn
PL_sv_undef|5.004050||pn
PL_sv_yes|5.004050||pn
PL_tainted|5.004050||p
PL_tainting|5.004050||p
PL_tokenbuf|5.024000||p
POP_MULTICALL||5.024000|
POPi|||n
POPl|||n
POPn|||n
POPpbytex||5.007001|n
POPpx||5.005030|n

POPp|||n
POPs|||n
POPul||5.006000|n
POPu||5.004000|n
PTR2IV|5.006000||p
PTR2NV|5.006000||p
PTR2UV|5.006000||p
PTR2nat|5.009003||p
PTR2ul|5.007001||p
PTRV|5.006000||p
PUSHMARK|||
PUSH_MULTICALL||5.024000|
PUSHi|||
PUSHmortal|5.009002||p
PUSHn|||
PUSHp|||
PUSHs|||
PUSHu|5.004000||p
PUTBACK|||
PadARRAY||5.024000|
PadMAX||5.024000|
PadlistARRAY||5.024000|
PadlistMAX||5.024000|
PadlistNAMESARRAY||5.024000|
PadlistNAMESMAX||5.024000|
PadlistNAMES||5.024000|
PadlistREFCNT||5.017004|
PadnameIsOUR|||
PadnameIsSTATE|||
PadnameLEN||5.024000|
PadnameOURSTASH|||
PadnameOUTER|||
PadnamePV||5.024000|
PadnameREFCNT_dec||5.024000|
PadnameREFCNT||5.024000|
PadnameSV||5.024000|
PadnameTYPE|||
PadnameUTF8||5.021007|
PadnamelistARRAY||5.024000|
PadnamelistMAX||5.024000|
PadnamelistREFCNT_dec||5.024000|
PadnamelistREFCNT||5.024000|
PerlIO_clearerr||5.007003|
PerlIO_close||5.007003|
PerlIO_context_layers||5.009004|
PerlIO_eof||5.007003|
PerlIO_error||5.007003|
PerlIO_fileno||5.007003|

PerlIO_fill||5.007003|
PerlIO_flush||5.007003|
PerlIO_get_base||5.007003|
PerlIO_get_bufsiz||5.007003|
PerlIO_get_cnt||5.007003|
PerlIO_get_ptr||5.007003|
PerlIO_read||5.007003|
PerlIO_restore_errno|||
PerlIO_save_errno|||
PerlIO_seek||5.007003|
PerlIO_set_cnt||5.007003|
PerlIO_set_ptrcnt||5.007003|
PerlIO_setlinebuf||5.007003|
PerlIO_stderr||5.007003|
PerlIO_stdin||5.007003|
PerlIO_stdout||5.007003|
PerlIO_tell||5.007003|
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perl_alloc|||n
perl_clone_using|||n
perl_clone|||n
perl_construct|||n
perl_destruct||5.007003|n
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perl_parse||5.006000|n
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ptr_hash|||n
ptr_table_clear||5.009005|
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ptr_table_find|||n
ptr_table_free||5.009005|
ptr_table_new||5.009005|
ptr_table_split||5.009005|
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reentrant_free||5.024000|
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reentrant_retry||5.024000|vn
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refcounted_he_free|||
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reginclass|||

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require_pv||5.006000|
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save_delete|||
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save_destructor||5.006000|
save_freeop|||
save_freepv|||
save_freesv|||
save_generic_pvref||5.006001|
save_generic_svref||5.005030|
save_gp||5.004000|
save_hash|||
save_hdelete||5.011000|
save_hek_flags|||n
save_helem_flags||5.011000|
save_helem||5.004050|
save_hints||5.010001|
save_hptr|||
save_int|||
save_item|||
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save_lines|||
save_list|||
save_long|||
save_magic_flags|||
save_mortalizesv||5.007001|
save_nogv|||
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scalarvoid|||
scalar|||
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set_numeric_local||5.006000|
set_numeric_radix||5.006000|
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set_padlist|||n
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si_dup|||
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simplify_sort|||

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ssc_finalize|||
ssc_init|||
ssc_intersection|||
ssc_is_anything|||n
ssc_is_cp_posixl_init|||n
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start_glob|||
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sv_2bool_flags||5.013006|
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sv_2cv|||
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sv_2iv|||
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sv_2nv_flags||5.013001|
sv_2pv_flags|5.007002||p
sv_2pv_nolen|5.006000||p
sv_2pvbyte_nolen|5.006000||p
sv_2pvbyte|5.006000||p
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sv_2pv|||
sv_2uv_flags||5.009001|
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sv_add_arena|||
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sv_backoff|||n
sv_bless|||
sv_buf_to_ro|||
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sv_catpv_flags||5.013006|
sv_catpv_mg|5.004050||p
sv_catpv_nomg||5.013006|
sv_catpvf_mg_nocontext|||pvn
sv_catpvf_mg|5.006000|5.004000|pv
sv_catpvf_nocontext|||vn
sv_catpvf||5.004000|v
sv_catpvn_flags||5.007002|
sv_catpvn_mg|5.004050||p
sv_catpvn_nomg|5.007002||p
sv_catpvn|||
sv_catpvs_flags||5.013006|
sv_catpvs_mg||5.013006|
sv_catpvs_nomg||5.013006|
sv_catpvs|5.009003||p
sv_catpv|||
sv_catsv_flags||5.007002|
sv_catsv_mg|5.004050||p
sv_catsv_nomg|5.007002||p
sv_catsv|||
sv_chop|||
sv_clean_all|||
sv_clean_objs|||
sv_clear|||
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sv_copypv_flags||5.017002|
sv_copypv_nomg||5.017002|
sv_copypv|||
sv_dec_nomg||5.013002|
sv_dec|||
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sv_derived_from_pv||5.015004|
sv_derived_from_sv||5.015004|
sv_derived_from||5.004000|
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sv_does_sv||5.015004|
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sv_dump|||
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sv_dup_inc|||
sv_dup|||
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sv_eq|||
sv_exp_grow|||
sv_force_normal_flags||5.007001|
sv_force_normal||5.006000|
sv_free2|||
sv_free_arenas|||
sv_free|||
sv_get_backrefs||5.021008|n
sv_gets||5.003070|
sv_grow|||
sv_i_ncmp|||
sv_inc_nomg||5.013002|
sv_inc|||
sv_insert_flags||5.010001|
sv_insert|||
sv_isa|||
sv_isobject|||
sv_iv||5.005000|
sv_kill_backrefs|||
sv_len_utf8_nomg|||
sv_len_utf8||5.006000|
sv_len|||
sv_magic_portable|5.024000|5.004000|p
sv_magicext_mglob|||

sv_magicext||5.007003|
sv_magic|||
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sv_mortalcopy|||
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sv_only_taint_gmagic|||n
sv_or_pv_pos_u2b|||
sv_peek||5.005000|
sv_pos_b2u_flags||5.019003|
sv_pos_b2u_midway|||
sv_pos_b2u||5.006000|
sv_pos_u2b_cached|||
sv_pos_u2b_flags||5.011005|
sv_pos_u2b_forwards|||n
sv_pos_u2b_midway|||n
sv_pos_u2b||5.006000|
sv_pvbyten_force||5.006000|
sv_pvbyten||5.006000|
sv_pvbyte||5.006000|
sv_pvn_force_flags|5.007002||p
sv_pvn_force|||
sv_pvn_nomg|5.007003|5.005000|p
sv_pvn||5.005000|
sv_pvutf8n_force||5.006000|
sv_pvutf8n||5.006000|
sv_pvutf8||5.006000|
sv_pv||5.006000|
sv_recode_to_utf8||5.007003|
sv_reftype|||
sv_ref||5.015004|
sv_replace|||
sv_report_used|||
sv_resetpvn|||
sv_reset|||
sv_rvweaken||5.006000|
sv_sethek|||
sv_setiv_mg|5.004050||p
sv_setiv|||
sv_setnv_mg|5.006000||p
sv_setnv|||
sv_setpv_mg|5.004050||p
sv_setpvf_mg_nocontext|||pvn

sv_setpvf_mg|5.006000|5.004000|pv
sv_setpvf_nocontext|||vn
sv_setpvf||5.004000|v
sv_setpviv_mg||5.008001|
sv_setpviv||5.008001|
sv_setpvn_mg|5.004050||p
sv_setpvn|||
sv_setpvs_mg||5.013006|
sv_setpvs|5.009004||p
sv_setpv|||
sv_setref_iv|||
sv_setref_nv|||
sv_setref_pvn|||
sv_setref_pvs||5.024000|
sv_setref_pv|||
sv_setref_uv||5.007001|
sv_setsv_cow|||
sv_setsv_flags||5.007002|
sv_setsv_mg|5.004050||p
sv_setsv_nomg|5.007002||p
sv_setsv|||
sv_setuv_mg|5.004050||p
sv_setuv|5.004000||p
sv_tainted||5.004000|
sv_taint||5.004000|
sv_true||5.005000|
sv_unglob|||
sv_uni_display||5.007003|
sv_unmagicext|5.013008||p
sv_unmagic|||
sv_unref_flags||5.007001|
sv_unref|||
sv_untaint||5.004000|
sv_upgrade|||
sv_usepvn_flags||5.009004|
sv_usepvn_mg|5.004050||p
sv_usepvn|||
sv_utf8_decode||5.006000|
sv_utf8_downgrade||5.006000|
sv_utf8_encode||5.006000|
sv_utf8_upgrade_flags_grow||5.011000|
sv_utf8_upgrade_flags||5.007002|
sv_utf8_upgrade_nomg||5.007002|
sv_utf8_upgrade||5.007001|
sv_uv|5.005000||p
sv_vcatpvf_mg|5.006000|5.004000|p
sv_vcatpvfn_flags||5.017002|
sv_vcatpvfn||5.004000|

sv_vcatpvf|5.006000|5.004000|p
sv_vsetpvf_mg|5.006000|5.004000|p
sv_vsetpvfn||5.004000|
sv_vsetpvf|5.006000|5.004000|p
svtype|||
swallow_bom|||
swash_fetch||5.007002|
swash_init||5.006000|
swash_scan_list_line|||
swatch_get|||
sync_locale||5.021004|
sys_init3||5.010000|n
sys_init||5.010000|n
sys_intern_clear|||
sys_intern_dup|||
sys_intern_init|||
sys_term||5.010000|n
taint_env|||
taint_proper|||
tied_method|||v
tmps_grow_p|||
toFOLD_utf8||5.019001|
toFOLD_uvchr||5.023009|
toFOLD||5.019001|
toLOWER_L1||5.019001|
toLOWER_LC||5.004000|
toLOWER_utf8||5.015007|
toLOWER_uvchr||5.023009|
toLOWER|||
toTITLE_utf8||5.015007|
toTITLE_uvchr||5.023009|
toTITLE||5.019001|
toUPPER_utf8||5.015007|
toUPPER_uvchr||5.023009|
toUPPER|||
to_byte_substr|||
to_lower_latin1|||n
to_uni_fold||5.007003|
to_uni_lower_lc||5.006000|
to_uni_lower||5.007003|
to_uni_title_lc||5.006000|
to_uni_title||5.007003|
to_uni_upper_lc||5.006000|
to_uni_upper||5.007003|
to_utf8_case||5.007003|
to_utf8_fold||5.015007|
to_utf8_lower||5.015007|
to_utf8_substr|||

to_utf8_title||5.015007|
to_utf8_upper||5.015007|
tokenize_use|||
tokeq|||
tokereport|||
too_few_arguments_pv|||
too_many_arguments_pv|||
translate_substr_offsets|||n
try_amagic_bin|||
try_amagic_un|||
uiv_2buf|||n
unlnk|||
unpack_rec|||
unpack_str||5.007003|
unpackstring||5.008001|
unreferenced_to_tmp_stack|||
unshare_hek_or_pvn|||
unshare_hek|||
unsharepvn||5.003070|
unwind_handler_stack|||
update_debugger_info|||
upg_version||5.009005|
usage|||
utf16_textfilter|||
utf16_to_utf8_reversed||5.006001|
utf16_to_utf8||5.006001|
utf8_distance||5.006000|
utf8_hop||5.006000|n
utf8_length||5.007001|
utf8_mg_len_cache_update|||
utf8_mg_pos_cache_update|||
utf8_to_bytes||5.006001|
utf8_to_uvchr_buf||5.015009|
utf8_to_uvchr||5.007001|
utf8_to_uvuni_buf||5.015009|
utf8_to_uvuni||5.007001|
utf8n_to_uvchr||5.007001|
utf8n_to_uvuni||5.007001|
utilize|||
uvchr_to_utf8_flags||5.007003|
uvchr_to_utf8||5.007001|
uvoffuni_to_utf8_flags||5.019004|
uvuni_to_utf8_flags||5.007003|
uvuni_to_utf8||5.007001|
valid_utf8_to_uvchr||5.015009|
valid_utf8_to_uvuni||5.015009|
validate_proto|||
validate_suid|||

```
varname|||
vcmp||5.009000|
vcroak||5.006000|
vdeb||5.007003|
vform||5.006000|
visit|||
vivify_defelem|||
vivify_ref|||
vload_module|5.006000||p
vmess|5.006000||p
vnewSVpvf|5.006000|5.004000|p
vnormal||5.009002|
vnumify||5.009000|
vstringify||5.009000|
vverify||5.009003|
vwarner||5.006000|
vwarn||5.006000|
wait4pid|||
warn_nocontext|||pvn
warn_sv|5.013001||p
warner_nocontext|||vn
warner|5.006000|5.004000|pv
warn|||v
was_lvalue_sub|||
watch|||
whichsig_pvn||5.015004|
whichsig_pv||5.015004|
whichsig_sv||5.015004|
whichsig|||
win32_croak_not_implemented|||n
with_queued_errors|||
wrap_op_checker||5.015008|
write_to_stderr|||
xs_boot_epilog|||
xs_handshake|||vn
xs_version_bootcheck|||
yyerror_pvn|||
yyerror_pv|||
yyerror|||
yylex|||
yyparse|||
yyunlex|||
yywarn|||
);

if
 (exists $opt{'list-unsupported'}) {
 my $f;
```

```
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{todo};
   print "$f ", '.'x(40-length($f)), " ", format_version($API{$f}{todo}), "\n";
 }
 exit 0;
}

# Scan for possible replacement candidates

my(%replace, %need, %hints, %warnings, %depends);
my $replace = 0;
my($hint,
 $define, $function);

sub find_api
{
 my $code = shift;
 $code =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | "[^"\\]*(?:\\.[^"\\]*)*"
 | '[^\\]*(?:\\.[^\\]*)*' }{}egsx;
 grep { exists $API{$_} } $code =~ /(\w+)/mg;
}

while (<DATA>) {
 if ($hint) {
   my $h = $hint->[0] eq 'Hint' ? \%hints : \%warnings;
   if (m{^\s*\*\s(.*?)\s*$}) {
     for (@{$hint->[1]}) {
       $h->{$_} ||= '';  # suppress warning with older perls
       $h->{$_} .= "$1\n";
     }
   }
   else { undef $hint }
 }

 $hint = [$1, [split /,?\s+/, $2]]
     if m{^\s*$rccs\s+(Hint|Warning):\s+(\w+(?:,?\s+\w+)*)\s*$};

 if ($define) {
   if ($define->[1] =~ /\\$/) {
     $define->[1] .= $_;
   }
   else {
     if (exists $API{$define->[0]} && $define->[1] !~ /^DPPP_\(/) {
       my @n = find_api($define->[1]);
       push @{$depends{$define->[0]}}, @n if @n
     }
```

```
    undef $define;
  }
 }

 $define = [$1, $2] if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(.*)};

 if
 ($function) {
  if (/^}/) {
    if (exists $API{$function->[0]}) {
      my @n = find_api($function->[1]);
      push @{$depends{$function->[0]}}, @n if @n
    }
    undef $function;
  }
  else {
    $function->[1] .= $_;
  }
 }

 $function = [$1, ''] if m{^DPPP_\(my_(\w+)\)};

 $replace     = $1 if m{^\s*$rccs\s+Replace:\s+(\d+)\s+$rcce\s*$};
 $replace{$2} = $1 if $replace and m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+)};
 $replace{$2} = $1 if m{^\s*#\s*define\s+(\w+)(?:\([^)]*\))?\s+(\w+).*$rccs\s+Replace\s+$rcce};
 $replace{$1} = $2 if m{^\s*$rccs\s+Replace (\w+) with (\w+)\s+$rcce\s*$};

 if (m{^\s*$rccs\s+(\w+(\s*,\s*\w+)*)\s+depends\s+on\s+(\w+(\s*,\s*\w+)*)\s+$rcce\s*$}) {
  my @deps = map { s/\s+//g; $_ } split /,/, $3;
  my $d;
  for $d (map { s/\s+//g; $_ } split /,/, $1) {
    push @{$depends{$d}}, @deps;
  }
 }

 $need{$1} = 1 if m{^#if\s+defined\(NEED_(\w+)(?:_GLOBAL)?\)};
}

for (values %depends) {
 my %s;
 $_ = [sort grep !$s{$_}++,
 @$_];
}

if (exists $opt{'api-info'}) {
 my $f;
 my $count = 0;
 my $match = $opt{'api-info'} =~ m!^/(.*)/$! ? $1 : "^\Q$opt{'api-info'}\E\$";
```

```
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $f =~ /$match/;
   print "\n=== $f ===\n\n";
   my $info = 0;
   if ($API{$f}{base} || $API{$f}{todo}) {
     my $base = format_version($API{$f}{base} || $API{$f}{todo});
     print "Supported at least starting from perl-$base.\n";
     $info++;
   }
   if ($API{$f}{provided}) {
     my $todo = $API{$f}{todo} ? format_version($API{$f}{todo}) : "5.003";
     print "Support by $ppport provided back to perl-$todo.\n";
     print "Support needs to be explicitly requested by NEED_$f.\n" if exists $need{$f};
     print "Depends on: ", join(', ', @{$depends{$f}}), ".\n" if exists $depends{$f};
     print "\n$hints{$f}" if exists $hints{$f};
     print "\nWARNING:\n$warnings{$f}" if exists $warnings{$f};
     $info++;
   }
   print "No portability information available.\n"
  unless $info;
   $count++;
 }
 $count or print "Found no API matching '$opt{'api-info'}'.";
 print "\n";
 exit 0;
}

if (exists $opt{'list-provided'}) {
 my $f;
 for $f (sort { lc $a cmp lc $b } keys %API) {
   next unless $API{$f}{provided};
   my @flags;
   push @flags, 'explicit' if exists $need{$f};
   push @flags, 'depend'   if exists $depends{$f};
   push @flags, 'hint'     if exists $hints{$f};
   push @flags, 'warning'  if exists $warnings{$f};
   my $flags = @flags ? '  ['.join(', ', @flags).']' : '';
   print "$f$flags\n";
 }
 exit 0;
}

my @files;
my @srcext = qw( .xs .c .h .cc .cpp -c.inc -xs.inc );
my $srcext = join '|', map { quotemeta $_ } @srcext;

if (@ARGV) {
 my %seen;
```

```
 for (@ARGV) {
   if (-e) {
     if (-f) {
       push @files, $_ unless $seen{$_}++;
     }
     else { warn "'$_' is not a file.\n" }
   }
   else {
     my @new = grep { -f } glob $_
         or warn "'$_' does not exist.\n";
     push @files, grep { !$seen{$_}++
 } @new;
   }
 }
}
else {
 eval {
   require File::Find;
   File::Find::find(sub {
     $File::Find::name =~ /($srcext)$/i
         and push @files, $File::Find::name;
   }, '.');
 };
 if ($@) {
   @files = map { glob "*$_" } @srcext;
 }
}

if (!@ARGV || $opt{filter}) {
 my(@in, @out);
 my %xsc = map { /(.*)\.xs$/ ? ("$1.c" => 1, "$1.cc" => 1) : () } @files;
 for (@files) {
   my $out = exists $xsc{$_} || /\b\Q$ppport\E$/i || !/($srcext)$/i;
   push @{ $out ? \@out : \@in }, $_;
 }
 if (@ARGV && @out) {
   warning("Skipping the following files (use --nofilter to avoid this):\n| ", join "\n| ", @out);
 }
 @files = @in;
}

die "No input files given!\n" unless @files;

my(%files, %global, %revreplace);
%revreplace = reverse %replace;
my $filename;
my $patch_opened = 0;
```

```
for $filename (@files) {
 unless (open IN, "<$filename") {
  warn "Unable to read from $filename: $!\n";
  next;
 }

 info("Scanning $filename ...");

 my $c = do { local $/; <IN> };
 close
 IN;

 my %file = (orig => $c, changes => 0);

 # Temporarily remove C/XS comments and strings from the code
 my @ccom;

 $c =~ s{
  ( ^$HS*\#$HS*include\b[^\r\n]+\b(?:\Q$ppport\E|XSUB\.h)\b[^\r\n]*
  | ^$HS*\#$HS*(?:define|elif|if(?:def)?)\b[^\r\n]* )
| ( ^$HS*\#[^\r\n]*
  | "[^"\\]*(?:\\.[^"\\]*)*"
  | '[^'\\]*(?:\\.[^'\\]*)*'
  | / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]* ) )
 }{ defined $2 and push @ccom, $2;
    defined $1 ? $1 : "$ccs$#ccom$cce" }mgsex;

 $file{ccom} = \@ccom;
 $file{code} = $c;
 $file{has_inc_ppport} = $c =~ /^$HS*#$HS*include[^\r\n]+\b\Q$ppport\E\b/m;

 my $func;

 for $func (keys %API) {
  my $match = $func;
  $match .= "|$revreplace{$func}" if exists $revreplace{$func};
  if ($c =~ /\b(?:Perl_)?($match)\b/) {
    $file{uses_replace}{$1}++ if exists $revreplace{$func} && $1 eq $revreplace{$func};
    $file{uses_Perl}{$func}++ if $c =~ /\bPerl_$func\b/;
    if (exists $API{$func}{provided}) {
      $file{uses_provided}{$func}++;
      if (!exists $API{$func}{base} || $API{$func}{base} > $opt{'compat-version'}) {
        $file{uses}{$func}++;
        my @deps = rec_depend($func);
        if (@deps) {
          $file{uses_deps}{$func} = \@deps;
          for (@deps) {
            $file{uses}{$_} = 0 unless exists $file{uses}{$_};
```

```
          }
        }
        for ($func, @deps) {
          $file{needs}{$_} = 'static' if exists $need{$_};
        }
      }
    }
    if (exists $API{$func}{todo} && $API{$func}{todo} > $opt{'compat-version'}) {
      if ($c =~ /\b$func\b/) {
        $file{uses_todo}{$func}++;
      }
    }
  }
}

while ($c =~ /^$HS*#$HS*define$HS+(NEED_(\w+?)(_GLOBAL)?)\b/mg) {
  if (exists $need{$2}) {
    $file{defined $3 ? 'needed_global' : 'needed_static'}{$2}++;
  }
  else { warning("Possibly wrong #define $1 in $filename") }
}

for (qw(uses needs uses_todo needed_global needed_static)) {
  for $func (keys %{$file{$_}}) {
    push @{$global{$_}{$func}}, $filename;
  }
}

$files{$filename} = \%file;
}

# Globally resolve NEED_'s
my $need;
for $need (keys %{$global{needs}}) {
 if (@{$global{needs}{$need}} > 1) {
  my @targets = @{$global{needs}{$need}};
  my @t = grep $files{$_}{needed_global}{$need}, @targets;
  @targets = @t if @t;
  @t = grep /\.xs$/i, @targets;
  @targets = @t if @t;
  my $target = shift @targets;
  $files{$target}{needs}{$need} = 'global';
  for (@{$global{needs}{$need}}) {
    $files{$_}{needs}{$need} = 'extern' if $_ ne $target;
  }
 }
}
```

```
for $filename (@files) {
 exists $files{$filename} or next;

 info("=== Analyzing $filename ===");

 my %file = %{$files{$filename}};
 my $func;
 my $c = $file{code};
 my $warnings = 0;

 for $func (sort keys %{$file{uses_Perl}}) {
  if ($API{$func}{varargs}) {
    unless ($API{$func}{nothxarg}) {
      my $changes = ($c =~ s{\b(Perl_$func\s*\(\s*)(?!aTHX_?)(\)|[^\s)]*\))}
                          {
$1 . ($2 eq ')' ? 'aTHX' : 'aTHX_ ') . $2 }ge);
      if ($changes) {
        warning("Doesn't pass interpreter argument aTHX to Perl_$func");
        $file{changes} += $changes;
      }
    }
  }
  else {
    warning("Uses Perl_$func instead of $func");
    $file{changes} += ($c =~ s{\bPerl_$func(\s*)\((\s*aTHX_?)?\s*}
                          {$func$1(}g);
  }
}

for $func (sort keys %{$file{uses_replace}}) {
  warning("Uses $func instead of $replace{$func}");
  $file{changes} += ($c =~ s/\b$func\b/$replace{$func}/g);
}

for $func (sort keys %{$file{uses_provided}}) {
  if ($file{uses}{$func}) {
    if (exists $file{uses_deps}{$func}) {
      diag("Uses $func, which depends on ", join(', ', @{$file{uses_deps}{$func}}));
    }
    else {
      diag("Uses $func");
    }
  }
  $warnings += hint($func);
}

unless ($opt{quiet}) {
  for $func (sort keys %{$file{uses_todo}}) {
```

```
    print "*** WARNING: Uses $func, which may not
be portable below perl ",
          format_version($API{$func}{todo}), ", even with '$ppport'\n";
    $warnings++;
  }
}

for $func (sort keys %{$file{needed_static}}) {
  my $message = '';
  if (not exists $file{uses}{$func}) {
    $message = "No need to define NEED_$func if $func is never used";
  }
  elsif (exists $file{needs}{$func} && $file{needs}{$func} ne 'static') {
    $message = "No need to define NEED_$func when already needed globally";
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_$func\b.*$LF//mg);
  }
}

for $func (sort keys %{$file{needed_global}}) {
  my $message = '';
  if (not exists $global{uses}{$func}) {
    $message = "No need to define NEED_${func}_GLOBAL if $func is never used";
  }
  elsif (exists $file{needs}{$func}) {
    if ($file{needs}{$func} eq 'extern') {
      $message = "No need to define NEED_${func}_GLOBAL when already needed globally";
    }

  elsif ($file{needs}{$func} eq 'static') {
      $message = "No need to define NEED_${func}_GLOBAL when only used in this file";
    }
  }
  if ($message) {
    diag($message);
    $file{changes} += ($c =~ s/^$HS*#$HS*define$HS+NEED_${func}_GLOBAL\b.*$LF//mg);
  }
}

$file{needs_inc_ppport} = keys %{$file{uses}};

if ($file{needs_inc_ppport}) {
  my $pp = '';

  for $func (sort keys %{$file{needs}}) {
    my $type = $file{needs}{$func};
```

```
    next if $type eq 'extern';
    my $suffix = $type eq 'global' ? '_GLOBAL' : '';
    unless (exists $file{"needed_$type"}{$func}) {
      if ($type eq 'global') {
        diag("Files [@{$global{needs}{$func}}] need $func, adding global request");
      }
      else {
        diag("File needs $func, adding static request");
      }
      $pp .= "#define NEED_$func$suffix\n";
    }
  }

  if ($pp && ($c =~ s/^(?=$HS*#$HS*define$HS+NEED_\w+)/$pp/m)) {
    $pp = '';
    $file{changes}++;
  }


  unless ($file{has_inc_ppport}) {
    diag("Needs to include '$ppport'");
    $pp .= qq(#include "$ppport"\n)
  }

  if ($pp) {
    $file{changes} += ($c =~ s/^($HS*#$HS*define$HS+NEED_\w+.*?)^/$1$pp/ms)
                   || ($c =~ s/^(?=$HS*#$HS*include.*\Q$ppport\E)/$pp/m)
                   || ($c =~ s/^($HS*#$HS*include.*XSUB.*\s*?)^/$1$pp/m)
                   || ($c =~ s/^/$pp/);
  }
}
else {
  if ($file{has_inc_ppport}) {
    diag("No need to include '$ppport'");
    $file{changes} += ($c =~ s/^$HS*?#$HS*include.*\Q$ppport\E.*?$LF//m);
  }
}

# put back in our C comments
my $ix;
my $cppc = 0;
my @ccom = @{$file{ccom}};
for $ix (0 .. $#ccom) {
  if (!$opt{cplusplus} && $ccom[$ix] =~ s!^//!!) {
    $cppc++;
    $file{changes} += $c =~ s/$rccs$ix$rcce/$ccs$ccom[$ix] $cce/;
  }
  else {
```

```
    $c =~ s/$rccs$ix$rcce/$ccom[$ix]/;
  }
}

if ($cppc) {
  my $s = $cppc != 1 ? 's' : '';
  warning("Uses $cppc C++ style comment$s,
which is not portable");
}

my $s = $warnings != 1 ? 's' : '';
my $warn = $warnings ? " ($warnings warning$s)" : '';
info("Analysis completed$warn");

if ($file{changes}) {
  if (exists $opt{copy}) {
    my $newfile = "$filename$opt{copy}";
    if (-e $newfile) {
      error("'$newfile' already exists, refusing to write copy of '$filename'");
    }
    else {
      local *F;
      if (open F, ">$newfile") {
        info("Writing copy of '$filename' with changes to '$newfile'");
        print F $c;
        close F;
      }
      else {
        error("Cannot open '$newfile' for writing: $!");
      }
    }
  }
  elsif (exists $opt{patch} || $opt{changes}) {
    if (exists $opt{patch}) {
      unless ($patch_opened) {
        if (open PATCH, ">$opt{patch}") {
          $patch_opened = 1;
        }
        else {
          error("Cannot open '$opt{patch}' for writing: $!");
          delete $opt{patch};
          $opt{changes}
= 1;
          goto fallback;
        }
      }
      mydiff(\*PATCH, $filename, $c);
    }
```

```
    else {
fallback:
      info("Suggested changes:");
      mydiff(\*STDOUT, $filename, $c);
    }
  }
  else {
    my $s = $file{changes} == 1 ? '' : 's';
    info("$file{changes} potentially required change$s detected");
  }
 }
 else {
  info("Looks good");
 }
}

close PATCH if $patch_opened;

exit 0;


sub try_use { eval "use @_;"; return $@ eq '' }

sub mydiff
{
 local *F = shift;
 my($file, $str) = @_;
 my $diff;

 if (exists $opt{diff}) {
  $diff = run_diff($opt{diff}, $file, $str);
 }

 if (!defined $diff and try_use('Text::Diff')) {
  $diff = Text::Diff::diff($file, \$str, { STYLE => 'Unified' });
  $diff = <<HEADER . $diff;
--- $file
+++ $file.patched
HEADER
 }

 if (!defined $diff) {
  $diff = run_diff('diff -u', $file, $str);
 }

 if (!defined $diff) {
  $diff = run_diff('diff', $file, $str);
 }
```

```
 if (!defined $diff) {
   error("Cannot
 generate a diff. Please install Text::Diff or use --copy.");
   return;
 }

 print F $diff;
}

sub run_diff
{
 my($prog, $file, $str) = @_;
 my $tmp = 'dpppтemp';
 my $suf = 'aaa';
 my $diff = '';
 local *F;

 while (-e "$tmp.$suf") { $suf++ }
 $tmp = "$tmp.$suf";

 if (open F, ">$tmp") {
   print F $str;
   close F;

   if (open F, "$prog $file $tmp |") {
     while (<F>) {
       s/\Q$tmp\E/$file.patched/;
       $diff .= $_;
     }
     close F;
     unlink $tmp;
     return $diff;
   }

   unlink $tmp;
 }
 else {
   error("Cannot open '$tmp' for writing: $!");
 }

 return undef;
}

sub rec_depend
{
 my($func, $seen) = @_;
 return () unless exists $depends{$func};
```

```
 $seen = {%{$seen||{}}};
 return () if $seen->{$func}++;
 my %s;
 grep !$s{$_}++, map { ($_, rec_depend($_, $seen)) } @{$depends{$func}};
}

sub parse_version
{
 my $ver = shift;

 if ($ver =~ /^(\d+)\.(\d+)\.(\d+)$/) {
   return ($1, $2, $3);
 }
 elsif ($ver !~ /^\d+\.[\d_]+$/)
 {
   die "cannot parse version '$ver'\n";
 }

 $ver =~ s/_//g;
 $ver =~ s/$/000000/;

 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "cannot parse version '$ver'\n";
   }
 }

 return ($r, $v, $s);
}

sub format_version
{
 my $ver = shift;

 $ver =~ s/$/000000/;
 my($r,$v,$s) = $ver =~ /(\d+)\.(\d{3})(\d{3})/;

 $v = int $v;
 $s = int $s;

 if ($r < 5 || ($r == 5 && $v < 6)) {
   if ($s % 10) {
     die "invalid version '$ver'\n";
```

```
  }
  $s /= 10;

  $ver = sprintf "%d.%03d", $r, $v;
  $s > 0 and $ver .= sprintf "_%02d", $s;

  return $ver;
 }

 return sprintf "%d.%d.%d", $r, $v, $s;
}

sub info
{
 $opt{quiet} and return;
 print @_, "\n";
}

sub diag
{
 $opt{quiet} and return;
 $opt{diag} and print @_, "\n";
}

sub warning
{
 $opt{quiet} and return;
 print "*** ", @_, "\n";
}

sub error
{
 print "*** ERROR: ", @_, "\n";
}

my %given_hints;
my %given_warnings;
sub
 hint
{
 $opt{quiet} and return;
 my $func = shift;
 my $rv = 0;
 if (exists $warnings{$func} && !$given_warnings{$func}++) {
  my $warn = $warnings{$func};
  $warn =~ s!^!*** !mg;
  print "*** WARNING: $func\n", $warn;
  $rv++;
```

```
 }
 if ($opt{hints} && exists $hints{$func} && !$given_hints{$func}++) {
   my $hint = $hints{$func};
   $hint =~ s/^/   /mg;
   print "   --- hint for $func ---\n", $hint;
 }
 $rv;
}

sub usage
{
 my($usage) = do { local(@ARGV,$/)=($0); <> } =~ /^=head\d$HS+SYNOPSIS\s*^(.*?)\s*^=/ms;
 my %M = ( 'I' => '*' );
 $usage =~ s/^\s*perl\s+\S+/$^X $0/;
 $usage =~ s/([A-Z])<([^>]+)>/$M{$1}$2$M{$1}/g;

 print <<ENDUSAGE;

Usage: $usage

See perldoc $0 for details.

ENDUSAGE

 exit 2;
}

sub strip
{
 my $self = do { local(@ARGV,$/)=($0); <> };
 my($copy) = $self =~ /^=head\d\s+COPYRIGHT\s*^(.*?)^=\w+/ms;
 $copy =~ s/^(?=\S+)/    /gms;
 $self =~ s/^$HS+Do NOT edit.*?(?=^-)/$copy/ms;
 $self =~ s/^SKIP.*(?=^__DATA__)/SKIP
if (\@ARGV
 && \$ARGV[0] eq '--unstrip') {
 eval { require Devel::PPPort };
 \$@ and die "Cannot require Devel::PPPort, please install.\\n";
 if (eval \$Devel::PPPort::VERSION < $VERSION) {
   die "$0 was originally generated with Devel::PPPort $VERSION.\\n"
     . "Your Devel::PPPort is only version \$Devel::PPPort::VERSION.\\n"
     . "Please install a newer version, or --unstrip will not work.\\n";
 }
 Devel::PPPort::WriteFile(\$0);
 exit 0;
}
print <<END;
```

Sorry, but this is a stripped version of \$0.

To be able to use its original script and doc functionality,
please try to regenerate this file using:

```
 \$^X \$0 --unstrip

END
/ms;
 my($pl, $c) = $self =~ /(.*^__DATA__)(.*)/ms;
 $c =~ s{
   / (?: \*[^*]*\*+(?:[^$ccs][^*]*\*+)* / | /[^\r\n]*)
 | ( "[^"\\]*(?:\\.[^"\\]*)*"
   | '[^\\]*(?:\\.[^\\]*)*' )
 | ($HS+) }{ defined $2 ? ' ' : ($1 || '') }gsex;
 $c =~ s!\s+$!!mg;
 $c =~ s!^$LF!!mg;
 $c =~ s!^\s*#\s*!#!mg;
 $c =~ s!^\s+!!mg;

 open OUT, ">$0" or die "cannot strip
 $0: $!\n";
 print OUT "$pl$c\n";

 exit 0;
}

__DATA__
*/
```

Found in path(s):
* /perl-Storable-3.11-3.el8.src.rpm-cosi-expand-archive-8tnIkdhI/Storable-3.11_repackaged.tar.gz-cosi-expand-archive-HBNXGx7V/Storable-3.11/ppport.h

1.79 perl-digest 1.17-395.el8

1.79.1 Available under license :

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

This is just a simple frontend module for autoloading of various
Digest:: modules. It also provide documentation of the interface that
all Digest:: modules should provide.

You will need perl version 5.004 or better to install this module.

Copyright 1998-2006 Gisle Aas.
Copyright 1995-1996 Neil Winton.

This library is free software; you can redistribute it and/or
modify it under the same terms as Perl itself.

Found in path(s):
* /perl-Digest-1.17-395.el8.src.rpm-cosi-expand-archive-NmswH4Un/Digest-1.17.tar.gz-cosi-expand-archive-vPzrVmz9/Digest-1.17/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Digest - Modules that calculate message digests

=head1 SYNOPSIS

```
 $md5  = Digest->new("MD5");
 $sha1 = Digest->new("SHA-1");
 $sha256 = Digest->new("SHA-256");
 $sha384 = Digest->new("SHA-384");
 $sha512 = Digest->new("SHA-512");

 $hmac = Digest->HMAC_MD5($key);
```

=head1 DESCRIPTION

The C<Digest::> modules calculate digests, also called "fingerprints"
or "hashes", of some data, called a message. The digest is (usually)
some small/fixed size string. The actual size of the digest depend of
the algorithm used. The message is simply a sequence of arbitrary
bytes or bits.

An important property of the digest algorithms is that the digest is
I<likely> to change if the message change in some way. Another
property is that digest functions are one-way functions, that is it
should be I<hard> to find a message that correspond to some given
digest. Algorithms differ in how "likely" and how "hard", as well
 as
how efficient they are to compute.

Note that the properties of the algorithms change over time, as the
algorithms are analyzed and machines grow faster. If your application
for instance depends on it being "impossible" to generate the same
digest for a different message it is wise to make it easy to plug in
stronger algorithms as the one used grow weaker. Using the interface
documented here should make it easy to change algorithms later.

All C<Digest::> modules provide the same programming interface. A
functional interface for simple use, as well as an object oriented

interface that can handle messages of arbitrary length and which can
read files directly.

The digest can be delivered in three formats:

=over 8

=item I<binary>

This is the most compact form, but it is not well suited for printing
or embedding in places that can't handle arbitrary data.

=item I<hex>

A twice as long string of lowercase hexadecimal digits.

=item I<base64>

A string of portable printable characters.
  This is the base64 encoded
representation of the digest with any trailing padding removed. The
string will be about 30% longer than the binary version.
L<MIME::Base64> tells you more about this encoding.

=back

The functional interface is simply importable functions with the same
name as the algorithm. The functions take the message as argument and
return the digest. Example:

 use Digest::MD5 qw(md5);
 $digest = md5($message);

There are also versions of the functions with "_hex" or "_base64"
appended to the name, which returns the digest in the indicated form.

=head1 OO INTERFACE

The following methods are available for all C<Digest::> modules:

=over 4

=item $ctx = Digest->XXX($arg,...)

=item $ctx = Digest->new(XXX => $arg,...)

=item $ctx = Digest::XXX->new($arg,...)

The constructor returns some object that encapsulate the state of the message-digest algorithm. You can add data to the object and finally ask for the digest. The "XXX" should of course be replaced by the proper name of the digest algorithm you want to use.

The two first forms are simply syntactic sugar which automatically load the right module on first use. The second form allow you to use algorithm names which contains letters which are not legal perl identifiers, e.g. "SHA-1". If no implementation for the given algorithm can be found, then an exception is raised.

If new() is called as an instance method (i.e. $ctx->new) it will just reset the state the object to the state of a newly created object. No new object is created in this case, and the return value is the reference to the object (i.e. $ctx).

=item $other_ctx = $ctx->clone

The clone method creates a copy of the digest state object and returns a reference to the copy.

=item $ctx->reset

This is just an alias for $ctx->new.

=item $ctx->add($data)

=item $ctx->add($chunk1, $chunk2, ...)

The string value of the $data provided as argument is appended to the message we calculate the digest for. The return value is the $ctx object itself.

If more arguments are provided then they are all appended to the message, thus all these lines will have the same effect on the state of the $ctx object:

```
$ctx->add("a"); $ctx->add("b"); $ctx->add("c");
$ctx->add("a")->add("b")->add("c");
$ctx->add("a", "b", "c");
$ctx->add("abc");
```

Most algorithms are only defined for strings of bytes and this method might therefore croak if the provided arguments contain chars with ordinal number above 255.

=item $ctx->addfile($io_handle)

The $io_handle is read until EOF and the content is appended to the message we calculate the digest for. The return value is the $ctx object itself.

The addfile() method will croak() if it fails reading data for some reason. If it croaks it is unpredictable what the state of the $ctx object will be in. The addfile() method might have been able to read the file partially before it failed. It is probably wise to discard or reset the $ctx object if this occurs.

In most
cases you want to make sure that the $io_handle is in "binmode" before you pass it as argument to the addfile() method.

=item $ctx->add_bits($data, $nbits)

=item $ctx->add_bits($bitstring)

The add_bits() method is an alternative to add() that allow partial bytes to be appended to the message. Most users should just ignore this method as partial bytes is very unlikely to be of any practical use.

The two argument form of add_bits() will add the first $nbits bits from $data. For the last potentially partial byte only the high order C<< $nbits % 8 >> bits are used. If $nbits is greater than C<< length($data) * 8 >>, then this method would do the same as C<< $ctx->add($data) >>.

The one argument form of add_bits() takes a $bitstring of "1" and "0" chars as argument. It's a shorthand for C<< $ctx->add_bits(pack("B*", $bitstring), length($bitstring)) >>.

The return value is the $ctx object itself.

This example shows two calls that should have the same effect:

```
$ctx->add_bits("111100001010");
$ctx->add_bits("\xF0\xA0", 12);
```

Most digest algorithms are byte based and for these it is not possible to add bits that are not a multiple of 8, and the add_bits() method will croak if you try.

=item $ctx->digest

Return the binary digest for the message.

Note that the C<digest> operation is effectively a destructive, read-once operation. Once it has been performed, the $ctx object is automatically C<reset> and can be used to calculate another digest value. Call $ctx->clone->digest if you want to calculate the digest without resetting the digest state.

=item $ctx->hexdigest

Same as $ctx->digest, but will return the digest in hexadecimal form.

=item $ctx->b64digest

Same as $ctx->digest, but will return the digest as a base64 encoded string.

=back

=head1 Digest speed

This table should give some indication on the relative speed of different algorithms. It is sorted by throughput based on a benchmark done with of some implementations of this API:

Algorithm
Size Implementation MB/s

MD4	128	Digest::MD4 v1.3	165.0
MD5	128	Digest::MD5 v2.33	98.8
SHA-256	256	Digest::SHA2 v1.1.0	66.7
SHA-1	160	Digest::SHA v4.3.1	58.9
SHA-1	160	Digest::SHA1 v2.10	48.8
SHA-256	256	Digest::SHA v4.3.1	41.3
Haval-256	256	Digest::Haval256 v1.0.4	39.8
SHA-384	384	Digest::SHA2 v1.1.0	19.6
SHA-512	512	Digest::SHA2 v1.1.0	19.3
SHA-384	384	Digest::SHA v4.3.1	19.2
SHA-512	512	Digest::SHA v4.3.1	19.2
Whirlpool	512	Digest::Whirlpool v1.0.2	13.0
MD2	128	Digest::MD2 v2.03	9.5
Adler-32	32	Digest::Adler32 v0.03	1.3
CRC-16	16	Digest::CRC v0.05	1.1
CRC-32	32	Digest::CRC v0.05	1.1
MD5	128	Digest::Perl::MD5 v1.5	1.0

CRC-CCITT 16 Digest::CRC v0.05 0.8

These numbers was achieved Apr 2004 with ActivePerl-5.8.3 running
under Linux on a P4 2.8 GHz CPU. The last 5 entries differ by being
pure perl implementations of the algorithms, which explains why they
are so slow.

=head1 SEE ALSO

L<Digest::Adler32>, L<Digest::CRC>, L<Digest::Haval256>,
L<Digest::HMAC>, L<Digest::MD2>, L<Digest::MD4>, L<Digest::MD5>,
L<Digest::SHA>, L<Digest::SHA1>, L<Digest::SHA2>, L<Digest::Whirlpool>

New digest implementations should consider subclassing from L<Digest::base>.

L<MIME::Base64>

http://en.wikipedia.org/wiki/Cryptographic_hash_function

=head1 AUTHOR

Gisle Aas <gisle@aas.no>

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Found in path(s):
* /perl-Digest-1.17-395.el8.src.rpm-cosi-expand-archive-NmswH4Un/Digest-1.17.tar.gz-cosi-expand-archive-vPzrVmz9/Digest-1.17/Digest.pm
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice

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1.82 perl-pod-simple 3.35-395.el8

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```
=head1 NAME

Pod::Simple::SimpleTree -- parse Pod into a simple parse tree

=head1 SYNOPSIS

 % cat ptest.pod

 =head1 PIE

 I like B<pie>!

 % perl -MPod::Simple::SimpleTree -MData::Dumper -e \
   "print Dumper(Pod::Simple::SimpleTree->new->parse_file(shift)->root)" \
   ptest.pod

 $VAR1 = [
          'Document',
          { 'start_line' => 1 },
          [
            'head1',
            { 'start_line' => 1 },
            'PIE'
          ],
          [
            'Para',
```

```
        { 'start_line' => 3 },
        'I like ',
        [
          'B',
          {},
          'pie'
        ],
        '!'
      ]
    ];
```

=head1 DESCRIPTION

This class is of interest to people writing a Pod processor/formatter.

This class takes Pod and parses it, returning a parse tree made just
of arrayrefs, and hashrefs, and strings.

This is a subclass
 of L<Pod::Simple> and inherits all its methods.

This class is inspired by XML::Parser's "Tree" parsing-style, although
it doesn't use exactly the same LoL format.

=head1 METHODS

At the end of the parse, call C<< $parser->root >> to get the
tree's top node.

=head1 Tree Contents

Every element node in the parse tree is represented by an arrayref of
the form: C<[I<elementname>, \%attributes, I<...subnodes...>]>.
See the example tree dump in the Synopsis, above.

Every text node in the tree is represented by a simple (non-ref)
string scalar. So you can test C<ref($node)> to see whether you have
an element node or just a text node.

The top node in the tree is C<['Document', \%attributes,
I<...subnodes...>]>

=head1 SEE ALSO

L<Pod::Simple>

L<perllol>

L<The "Tree" subsubsection in XML::Parser|XML::Parser/"Tree">

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org
 to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
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=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

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=head1 NAME

Pod::Simple::Text -- format Pod as plaintext

=head1 SYNOPSIS

```
perl -MPod::Simple::Text -e \
 "exit Pod::Simple::Text->filter(shift)->any_errata_seen" \
 thingy.pod
```

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as
wrapped plaintext.

Its wrapping is done by L<Text::Wrap>, so you can change
C<$Text::Wrap::columns> as you like.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::TextContent>, L<Pod::Text>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
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Patches against
Pod::Simple are welcome. Please send bug reports to
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=back

=cut

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=head1 NAME

Pod::Simple::Search - find POD documents in directory trees

=head1 SYNOPSIS

```
 use Pod::Simple::Search;
 my $name2path = Pod::Simple::Search->new->limit_glob('LWP::*')->survey;
 print "Looky see what I found: ",
   join(' ', sort keys %$name2path), "\n";

 print "LWPUA docs = ",
   Pod::Simple::Search->new->find('LWP::UserAgent') || "?",
   "\n";
```

=head1 DESCRIPTION

B<Pod::Simple::Search> is a class that you use for running searches

for Pod files. An object of this class has several attributes
(mostly options for controlling search options), and some methods
for searching based on those attributes.

The way to use this class is to make a new object of this class,
set any options, and then call one of the search options
(probably C<survey> or C<find>). The sections below discuss the
syntaxes for doing all that.

=head1 CONSTRUCTOR

This class provides the one constructor, called C<new>.
It takes
 no parameters:

 use Pod::Simple::Search;
 my $search = Pod::Simple::Search->new;

=head1 ACCESSORS

This class defines several methods for setting (and, occasionally,
reading) the contents of an object. With two exceptions (discussed at
the end of this section), these attributes are just for controlling the
way searches are carried out.

Note that each of these return C<$self> when you call them as
C<< $self->I<whatever(value)> >>. That's so that you can chain
together set-attribute calls like this:

 my $name2path =
   Pod::Simple::Search->new
   -> inc(0) -> verbose(1) -> callback(\&blab)
   ->survey(@there);

...which works exactly as if you'd done this:

 my $search = Pod::Simple::Search->new;
 $search->inc(0);
 $search->verbose(1);
 $search->callback(\&blab);
 my $name2path = $search->survey(@there);

=over

=item $search->inc(I<true-or-false>);

This attribute, if set to a true value, means that searches should

implicitly add perl's I<@INC> paths. This
automatically
 considers paths specified in the C<PERL5LIB> environment
as this is prepended to I<@INC> by the Perl interpreter itself.
This attribute's default value is B<TRUE>. If you want to search
only specific directories, set $self->inc(0) before calling
$inc->survey or $inc->find.

=item $search->verbose(I<nonnegative-number>);

This attribute, if set to a nonzero positive value, will make searches output
(via C<warn>) notes about what they're doing as they do it.
This option may be useful for debugging a pod-related module.
This attribute's default value is zero, meaning that no C<warn> messages
are produced. (Setting verbose to 1 turns on some messages, and setting
it to 2 turns on even more messages, i.e., makes the following search(es)
even more verbose than 1 would make them.)

=item $search->limit_glob(I<some-glob-string>);

This option means that you want to limit the results just to items whose
podnames match the given glob/wildcard expression. For example, you
might limit your
 search to just "LWP::*", to search only for modules
starting with "LWP::*" (but not including the module "LWP" itself); or
you might limit your search to "LW*" to see only modules whose (full)
names begin with "LW"; or you might search for "*Find*" to search for
all modules with "Find" somewhere in their full name. (You can also use
"?" in a glob expression; so "DB?" will match "DBI" and "DBD".)

=item $search->callback(I<\&some_routine>);

This attribute means that every time this search sees a matching
Pod file, it should call this callback routine. The routine is called
with two parameters: the current file's filespec, and its pod name.
(For example: C<("/etc/perljunk/File/Crunk.pm", "File::Crunk")> would
be in C<@_>.)

The callback routine's return value is not used for anything.

This attribute's default value is false, meaning that no callback
is called.

=item $search->laborious(I<true-or-false>);

Unless you set this attribute to a true value, Pod::Search will

apply
 Perl-specific heuristics to find the correct module PODs quickly.
This attribute's default value is false. You won't normally need
to set this to true.

Specifically: Turning on this option will disable the heuristics for
seeing only files with Perl-like extensions, omitting subdirectories
that are numeric but do I<not> match the current Perl interpreter's
version ID, suppressing F<site_perl> as a module hierarchy name, etc.

=item $search->recurse(I<true-or-false>);

Unless you set this attribute to a false value, Pod::Search will
recurse into subdirectories of the search directories.

=item $search->shadows(I<true-or-false>);

Unless you set this attribute to a true value, Pod::Simple::Search will
consider only the first file of a given modulename as it looks thru the
specified directories; that is, with this option off, if
Pod::Simple::Search has seen a C<somepathdir/Foo/Bar.pm> already in this
search, then it won't bother looking at a C<somelaterpathdir/Foo/Bar.pm>
later on in
 that search, because that file is merely a "shadow". But if
you turn on C<< $self->shadows(1) >>, then these "shadow" files are
inspected too, and are noted in the pathname2podname return hash.

This attribute's default value is false; and normally you won't
need to turn it on.

=item $search->limit_re(I<some-regxp>);

Setting this attribute (to a value that's a regexp) means that you want
to limit the results just to items whose podnames match the given
regexp. Normally this option is not needed, and the more efficient
C<limit_glob> attribute is used instead.

=item $search->dir_prefix(I<some-string-value>);

Setting this attribute to a string value means that the searches should
begin in the specified subdirectory name (like "Pod" or "File::Find",
also expressible as "File/Find"). For example, the search option
C<< $search->limit_glob("File::Find::R*") >>
is the same as the combination of the search options
C<< $search->limit_re("^File::Find::R") -> dir_prefix("File::Find") >>.

Normally
you don't need to know about the C<dir_prefix> option, but I
include it in case it might prove useful for someone somewhere.

(Implementationally, searching with limit_glob ends up setting limit_re
and usually dir_prefix.)

=item $search->progress(I<some-progress-object>);

If you set a value for this attribute, the value is expected
to be an object (probably of a class that you define) that has a
C<reach> method and a C<done> method. This is meant for reporting
progress during the search, if you don't want to use a simple
callback.

Normally you don't need to know about the C<progress> option, but I
include it in case it might prove useful for someone somewhere.

While a search is in progress, the progress object's C<reach> and
C<done> methods are called like this:

```
 # Every time a file is being scanned for pod:
 $progress->reach($count, "Scanning $file");   ++$count;

 # And then at the end of the search:
 $progress->done("Noted $count Pod files total");
```

Internally,
we often set this to an object of class
Pod::Simple::Progress. That class is probably undocumented,
but you may wish to look at its source.

=item $name2path = $self->name2path;

This attribute is not a search parameter, but is used to report the
result of C<survey> method, as discussed in the next section.

=item $path2name = $self->path2name;

This attribute is not a search parameter, but is used to report the
result of C<survey> method, as discussed in the next section.

=back

=head1 MAIN SEARCH METHODS

Once you've actually set any options you want (if any), you can go
ahead and use the following methods to search for Pod files
in particular ways.

=head2 C<< $search->survey(@directories) >>

The method C<survey> searches for POD documents in a given set of
files and/or directories. This runs the search according to the various
options set by the accessors above. (For example, if the C<inc> attribute
is on, as it is by default, then the perl @INC directories are implicitly
added
 to the list of directories (if any) that you specify.)

The return value of C<survey> is two hashes:

=over

=item C<name2path>

A hash that maps from each pod-name to the filespec (like
"Stuff::Thing" => "/whatever/plib/Stuff/Thing.pm")

=item C<path2name>

A hash that maps from each Pod filespec to its pod-name (like
"/whatever/plib/Stuff/Thing.pm" => "Stuff::Thing")

=back

Besides saving these hashes as the hashref attributes
C<name2path> and C<path2name>, calling this function also returns
these hashrefs. In list context, the return value of
C<< $search->survey >> is the list C<(\%name2path, \%path2name)>.
In scalar context, the return value is C<\%name2path>.
Or you can just call this in void context.

Regardless of calling context, calling C<survey> saves
its results in its C<name2path> and C<path2name> attributes.

E.g., when searching in F<$HOME/perl5lib>, the file
F<$HOME/perl5lib/MyModule.pm> would get the POD name I<MyModule>,
whereas F<$HOME/perl5lib/Myclass/Subclass.pm>
 would be
I<Myclass::Subclass>. The name information can be used for POD
translators.

Only text files containing at least one valid POD command are found.

In verbose mode, a warning is printed if shadows are found (i.e., more
than one POD file with the same POD name is found, e.g. F<CPAN.pm> in
different directories). This usually indicates duplicate occurrences of
modules in the I<@INC> search path, which is occasionally inadvertent
(but is often simply a case of a user's path dir having a more recent
version than the system's general path dirs in general.)

The options to this argument is a list of either directories that are
searched recursively, or files. (Usually you wouldn't specify files,
but just dirs.) Or you can just specify an empty-list, as in
$name2path; with the C<inc> option on, as it is by default.

The POD names of files are the plain basenames with any Perl-like
extension (.pm, .pl, .pod) stripped, and path separators replaced by
C<::>'s.

Calling Pod::Simple::Search->search(...)
 is short for
Pod::Simple::Search->new->search(...). That is, a throwaway object
with default attribute values is used.

=head2 C<< $search->simplify_name($str) >>

The method B<simplify_name> is equivalent to B<basename>, but also
strips Perl-like extensions (.pm, .pl, .pod) and extensions like
F<.bat>, F<.cmd> on Win32 and OS/2, or F<.com> on VMS, respectively.

=head2 C<< $search->find($pod) >>

=head2 C<< $search->find($pod, @search_dirs) >>

Returns the location of a Pod file, given a Pod/module/script name
(like "Foo::Bar" or "perlvar" or "perldoc"), and an idea of
what files/directories to look in.
It searches according to the various options set by the accessors above.
(For example, if the C<inc> attribute is on, as it is by default, then
the perl @INC directories are implicitly added to the list of
directories (if any) that you specify.)

This returns the full path of the first occurrence to the file.
Package names (eg 'A::B') are automatically
 converted to directory
names in the selected directory. Additionally, '.pm', '.pl' and '.pod'
are automatically appended to the search as required.
(So, for example, under Unix, "A::B" is converted to "somedir/A/B.pm",

"somedir/A/B.pod", or "somedir/A/B.pl", as appropriate.)

If no such Pod file is found, this method returns undef.

If any of the given search directories contains a F<pod/> subdirectory,
then it is searched. (That's how we manage to find F<perlfunc>,
for example, which is usually in F<pod/perlfunc> in most Perl dists.)

The C<verbose> and C<inc> attributes influence the behavior of this
search; notably, C<inc>, if true, adds @INC I<and also
$Config::Config{'scriptdir'}> to the list of directories to search.

It is common to simply say C<< $filename = Pod::Simple::Search-> new
->find("perlvar") >> so that just the @INC (well, and scriptdir)
directories are searched. (This happens because the C<inc>
attribute is true by default.)

Calling Pod::Simple::Search->find(...)
 is short for
Pod::Simple::Search->new->find(...). That is, a throwaway object
with default attribute values is used.

=head2 C<< $self->contains_pod($file) >>

Returns true if the supplied filename (not POD module) contains some Pod
documentation.

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

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Patches against Pod::Simple are welcome. Please send bug reports to
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merchantability or fitness for a particular purpose.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org> with code borrowed
from Marek Rouchal's L<Pod::Find>, which in turn heavily borrowed code from
Nick Ing-Simmons' C<PodToHtml>.

But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/Search.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::RTF -- format Pod as RTF

=head1 SYNOPSIS

 perl -MPod::Simple::RTF -e \
  "exit Pod::Simple::RTF->filter(shift)->any_errata_seen" \
  thingy.pod > thingy.rtf

=head1 DESCRIPTION

This class is a formatter that takes Pod and renders it as RTF, good for
viewing/printing in MSWord, WordPad/write.exe, TextEdit, etc.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 FORMAT CONTROL ATTRIBUTES

You can set these attributes on the parser object before you
call C<parse_file> (or a similar method) on it:

=over

=item $parser->head1_halfpoint_size(I<halfpoint_integer>);

=item $parser->head2_halfpoint_size(I<halfpoint_integer>);

=item $parser->head3_halfpoint_size(I<halfpoint_integer>);

=item $parser->head4_halfpoint_size(I<halfpoint_integer>);

These methods set the size (in half-points, like 52 for 26-point)
that these heading levels will appear as.

=item $parser->codeblock_halfpoint_size(
 I<halfpoint_integer>);

This method sets the size (in half-points, like 21 for 10.5-point)
that codeblocks ("verbatim sections") will appear as.

=item $parser->header_halfpoint_size(I<halfpoint_integer>);

This method sets the size (in half-points, like 15 for 7.5-point)
that the header on each page will appear in. The header
is usually just "I<modulename> p. I<pagenumber>".

=item $parser->normal_halfpoint_size(I<halfpoint_integer>);

This method sets the size (in half-points, like 26 for 13-point)
that normal paragraphic text will appear in.

=item $parser->no_proofing_exemptions(I<true_or_false>);

Set this value to true if you don't want the formatter to try
putting a hidden code on all Perl symbols (as best as it can
notice them) that labels them as being not in English, and
so not worth spellchecking.

=item $parser->doc_lang(I<microsoft_decimal_language_code>)

This sets the language code to tag this document as being in. By
default, it

is currently the value of the environment variable
C<RTFDEFLANG>, or if that's not set, then the value
1033 (for US English).

Setting this appropriately is useful if you want to use the RTF
to spellcheck, and/or if you want it to hyphenate right.

Here are some notable values:

 1033 US English
 2057 UK English
 3081 Australia English
 4105 Canada English
 1034 Spain Spanish
 2058 Mexico Spanish
 1031 Germany German
 1036 France French
 3084 Canada French
 1035 Finnish
 1044 Norwegian (Bokmal)
 2068 Norwegian (Nynorsk)

=back

If you are particularly interested in customizing this module's output
even more, see the source and/or write to me.

=head1 SEE ALSO

L<Pod::Simple>, L<RTF::Writer>, L<RTF::Cookbook>, L<RTF::Document>,
L<RTF::Generator>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open
 GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

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Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

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.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

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=back

=cut

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

=head1 NAME

Pod::Simple - framework for parsing Pod

=head1 SYNOPSIS

TODO

=head1 DESCRIPTION

Pod::Simple is a Perl library for parsing text in the Pod ("plain old
documentation") markup language that is typically used for writing
documentation for Perl and for Perl modules. The Pod format is explained
in L<perlpod>; the most common formatter is called C<perldoc>.

Be sure to read L</ENCODING> if your Pod contains non-ASCII characters.

Pod formatters can use Pod::Simple to parse Pod documents and render them into plain text, HTML, or any number of other formats. Typically, such formatters will be subclasses of Pod::Simple, and so they will inherit its methods, like C<parse_file>.

If you're reading this document just because you have a Pod-processing subclass that you want to use, this document (plus the documentation for the subclass) is probably all you need to read.

If you're reading this document because you
want to write a formatter
subclass, continue reading it and then read L<Pod::Simple::Subclassing>, and then possibly even read L<perlpodspec> (some of which is for parser-writers, but much of which is notes to formatter-writers).

=head1 MAIN METHODS

=over

=item C<< $parser = I<SomeClass>->new(); >>

This returns a new parser object, where I<C<SomeClass>> is a subclass of Pod::Simple.

=item C<< $parser->output_fh(*OUT); >>

This sets the filehandle that C<$parser>'s output will be written to.
You can pass C<*STDOUT> or C<*STDERR>, otherwise you should probably do something like this:

```
  my $outfile = "output.txt";
  open TXTOUT, ">$outfile" or die "Can't write to $outfile: $!";
  $parser->output_fh(*TXTOUT);
```

...before you call one of the C<< $parser->parse_I<whatever> >> methods.

=item C<< $parser->output_string(\$somestring); >>

This sets the string that C<$parser>'s output will be sent to, instead of any filehandle.

=item C<< $parser->parse_file(I<$some_filename>
 ); >>

=item C<< $parser->parse_file(*INPUT_FH); >>

This reads the Pod content of the file (or filehandle) that you specify,
and processes it with that C<$parser> object, according to however
C<$parser>'s class works, and according to whatever parser options you
have set up for this C<$parser> object.

=item C<< $parser->parse_string_document(I<$all_content>); >>

This works just like C<parse_file> except that it reads the Pod
content not from a file, but from a string that you have already
in memory.

=item C<< $parser->parse_lines(I<...@lines...>, undef); >>

This processes the lines in C<@lines> (where each list item must be a
defined value, and must contain exactly one line of content -- so no
items like C<"foo\nbar"> are allowed). The final C<undef> is used to
indicate the end of document being parsed.

The other C<parser_I<whatever>> methods are meant to be called only once
per C<$parser> object; but C<parse_lines> can be called as many times per
C<$parser> object as you
 want, as long as the last call (and only
the last call) ends with an C<undef> value.

=item C<< $parser->content_seen >>

This returns true only if there has been any real content seen for this
document. Returns false in cases where the document contains content,
but does not make use of any Pod markup.

=item C<< I<SomeClass>->filter(I<$filename>); >>

=item C<< I<SomeClass>->filter(I<*INPUT_FH>); >>

=item C<< I<SomeClass>->filter(I<\$document_content>); >>

This is a shortcut method for creating a new parser object, setting the
output handle to STDOUT, and then processing the specified file (or
filehandle, or in-memory document). This is handy for one-liners like
this:

 perl -MPod::Simple::Text -e "Pod::Simple::Text->filter('thingy.pod')"

=back

=head1 SECONDARY METHODS

Some of these methods might be of interest to general users, as
well as of interest to formatter-writers.

Note that the general pattern here is that the accessor-methods
read the attribute's value with
 C<< $value = $parser->I<attribute> >>
and set the attribute's value with
C<< $parser->I<attribute>(I<newvalue>) >>. For each accessor, I typically
only mention one syntax or another, based on which I think you are actually
most likely to use.

=over

=item C<< $parser->parse_characters(I<SOMEVALUE>) >>

The Pod parser normally expects to read octets and to convert those octets
to characters based on the C<=encoding> declaration in the Pod source. Set
this option to a true value to indicate that the Pod source is already a Perl
character stream. This tells the parser to ignore any C<=encoding> command
and to skip all the code paths involving decoding octets.

=item C<< $parser->no_whining(I<SOMEVALUE>) >>

If you set this attribute to a true value, you will suppress the
parser's complaints about irregularities in the Pod coding. By default,
this attribute's value is false, meaning that irregularities will
be reported.

Note that turning this attribute to true won't suppress one
 or two kinds
of complaints about rarely occurring unrecoverable errors.

=item C<< $parser->no_errata_section(I<SOMEVALUE>) >>

If you set this attribute to a true value, you will stop the parser from
generating a "POD ERRORS" section at the end of the document. By
default, this attribute's value is false, meaning that an errata section
will be generated, as necessary.

=item C<< $parser->complain_stderr(I<SOMEVALUE>) >>

If you set this attribute to a true value, it will send reports of

parsing errors to STDERR. By default, this attribute's value is false,
meaning that no output is sent to STDERR.

Setting C<complain_stderr> also sets C<no_errata_section>.

=item C<< $parser->source_filename >>

This returns the filename that this parser object was set to read from.

=item C<< $parser->doc_has_started >>

This returns true if C<$parser> has read from a source, and has seen
Pod content in it.

=item C<< $parser->source_dead >>

This returns true if C<$parser> has read from a
 source, and come to the
end of that source.

=item C<< $parser->strip_verbatim_indent(I<SOMEVALUE>) >>

The perlpod spec for a Verbatim paragraph is "It should be reproduced
exactly...", which means that the whitespace you've used to indent your
verbatim blocks will be preserved in the output. This can be annoying for
outputs such as HTML, where that whitespace will remain in front of every
line. It's an unfortunate case where syntax is turned into semantics.

If the POD you're parsing adheres to a consistent indentation policy, you can
have such indentation stripped from the beginning of every line of your
verbatim blocks. This method tells Pod::Simple what to strip. For two-space
indents, you'd use:

 $parser->strip_verbatim_indent(' ');

For tab indents, you'd use a tab character:

 $parser->strip_verbatim_indent("\t");

If the POD is inconsistent about the indentation of verbatim blocks, but you
have figured out a heuristic to determine how much a particular verbatim block
is
 indented, you can pass a code reference instead. The code reference will be
executed with one argument, an array reference of all the lines in the
verbatim block, and should return the value to be stripped from each line. For

example, if you decide that you're fine to use the first line of the verbatim block to set the standard for indentation of the rest of the block, you can look at the first line and return the appropriate value, like so:

```
 $new->strip_verbatim_indent(sub {
    my $lines = shift;
    (my $indent = $lines->[0]) =~ s/\S.*//;
    return $indent;
 });
```

If you'd rather treat each line individually, you can do that, too, by just transforming them in-place in the code reference and returning C<undef>. Say that you don't want I<any> lines indented. You can do something like this:

```
 $new->strip_verbatim_indent(sub {
    my $lines = shift;
    sub { s/^\s+// for @{ $lines },
    return undef;
 });
```

=back

=head1 TERTIARY METHODS

=over

=item C<< $parser->abandon_output_fh()
 >>X<abandon_output_fh>

Cancel output to the file handle. Any POD read by the C<$parser> is not effected.

=item C<< $parser->abandon_output_string() >>X<abandon_output_string>

Cancel output to the output string. Any POD read by the C<$parser> is not effected.

=item C<< $parser->accept_code(@codes) >>X<accept_code>

Alias for L<< accept_codes >>.

=item C<< $parser->accept_codes(@codes) >>X<accept_codes>

Allows C<$parser> to accept a list of L<perlpod/Formatting Codes>. This can be used to implement user-defined codes.

=item C<< $parser->accept_directive_as_data(@directives) >>X<accept_directive_as_data>

Allows C<$parser> to accept a list of directives for data paragraphs. A
directive is the label of a L<perlpod/Command Paragraph>. A data paragraph is
one delimited by C<< =begin/=for/=end >> directives. This can be used to
implement user-defined directives.

=item C<< $parser->accept_directive_as_processed(@directives) >>X<accept_directive_as_processed>

Allows
C<$parser> to accept a list of directives for processed paragraphs. A
directive is the label of a L<perlpod/Command Paragraph>. A processed
paragraph is also known as L<perlpod/Ordinary Paragraph>. This can be used to
implement user-defined directives.

=item C<< $parser->accept_directive_as_verbatim(@directives) >>X<accept_directive_as_verbatim>

Allows C<$parser> to accept a list of directives for L<perlpod/Verbatim
Paragraph>. A directive is the label of a L<perlpod/Command Paragraph>. This
can be used to implement user-defined directives.

=item C<< $parser->accept_target(@targets) >>X<accept_target>

Alias for L<< accept_targets >>.

=item C<< $parser->accept_target_as_text(@targets) >>X<accept_target_as_text>

Alias for L<< accept_targets_as_text >>.

=item C<< $parser->accept_targets(@targets) >>X<accept_targets>

Accepts targets for C<< =begin/=for/=end >> sections of the POD.

=item C<< $parser->accept_targets_as_text(@targets) >>X<accept_targets_as_text>

Accepts
targets for C<< =begin/=for/=end >> sections that should be parsed as
POD. For details, see L<< perlpodspec/About Data Paragraphs >>.

=item C<< $parser->any_errata_seen() >>X<any_errata_seen>

Used to check if any errata was seen.

I<Example:>

```
die "too many errors\n" if $parser->any_errata_seen();
```

=item C<< $parser->errata_seen() >>X<errata_seen>

Returns a hash reference of all errata seen, both whines and screams. The hash reference's keys are the line number

and the value is an array reference of the errors for that line.

I<Example:>

```
 if ( $parser->any_errata_seen() ) {
    $logger->log( $parser->errata_seen() );
 }
```

=item C<< $parser->detected_encoding() >>X<detected_encoding>

Return the encoding corresponding to C<< =encoding >>, but only if the encoding was recognized and handled.

=item C<< $parser->encoding() >>X<encoding>

Return encoding of the document, even if the encoding is not correctly handled.

=item C<< $parser->parse_from_file($source, $to) >>X<parse_from_file>

Parses
 from C<$source> file to C<$to> file. Similar to L<< Pod::Parser/parse_from_file >>.

=item C<< $parser->scream(@error_messages) >>X<scream>

Log an error that can't be ignored.

=item C<< $parser->unaccept_code(@codes) >>X<unaccept_code>

Alias for L<< unaccept_codes >>.

=item C<< $parser->unaccept_codes(@codes) >>X<unaccept_codes>

Removes C<< @codes >> as valid codes for the parse.

=item C<< $parser->unaccept_directive(@directives) >>X<unaccept_directive>

Alias for L<< unaccept_directives >>.

=item C<< $parser->unaccept_directives(@directives) >>X<unaccept_directives>

Removes C<< @directives >> as valid directives for the parse.

=item C<< $parser->unaccept_target(@targets) >>X<unaccept_target>

Alias for L<< unaccept_targets >>.

=item C<< $parser->unaccept_targets(@targets) >>X<unaccept_targets>

Removes C<< @targets >> as valid targets for the parse.

=item C<< $parser->version_report() >>X<version_report>

Returns a string describing the version.

=item
C<< $parser->whine(@error_messages) >>X<whine>

Log an error unless C<< $parser->no_whining(TRUE); >>.

=back

=head1 ENCODING

The Pod::Simple parser expects to read B<octets>. The parser will decode the
octets into Perl's internal character string representation using the value of
the C<=encoding> declaration in the POD source.

If the POD source does not include an C<=encoding> declaration, the parser will
attempt to guess the encoding (selecting one of UTF-8 or CP 1252) by examining
the first non-ASCII bytes and applying the heuristic described in
L<perlpodspec>. (If the POD source contains only ASCII bytes, the
encoding is assumed to be ASCII.)

If you set the C<parse_characters> option to a true value the parser will
expect characters rather than octets; will ignore any C<=encoding>; and will
make no attempt to decode the input.

=head1 SEE ALSO

L<Pod::Simple::Subclassing>

L<perlpod|perlpod>

L<perlpodspec|perlpodspec>

L<Pod::Escapes|Pod::Escapes>

L<perldoc>

=head1
SUPPORT

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Pod::Simple is maintained by:

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 * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

Documentation has been contributed by:

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=item * Gabor Szabo C<szabgab@gmail.com>

=item * Shawn H Corey C<SHCOREY at cpan.org>

=back

=cut

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

=head1 NAME

Pod::Simple::PullParser -- a pull-parser interface to parsing Pod

=head1 SYNOPSIS

my $parser = SomePodProcessor->new;
$parser->set_source("whatever.pod");
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source($some_filehandle_object);
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source(\$document_source);
$parser->run;

Or:

my $parser = SomePodProcessor->new;
$parser->set_source(\@document_lines);
$parser->run;

And elsewhere:

require 5;
package SomePodProcessor;
use strict;
use base qw(Pod::Simple::PullParser);

sub run {
  my $self = shift;
 Token:
  while(my $token = $self->get_token) {
    ...process each token...
  }

}

=head1 DESCRIPTION

This class is for using Pod::Simple to build a Pod processor -- but
one that uses an interface based on a stream of token objects,
instead of based on events.

This is a subclass of L<Pod::Simple>
 and inherits all its methods.

A subclass of Pod::Simple::PullParser should define a C<run> method
that calls C<< $token = $parser->get_token >> to pull tokens.

See the source for Pod::Simple::RTF for an example of a formatter
that uses Pod::Simple::PullParser.

=head1 METHODS

=over

=item my $token = $parser->get_token

This returns the next token object (which will be of a subclass of
L<Pod::Simple::PullParserToken>), or undef if the parser-stream has hit
the end of the document.

=item $parser->unget_token($token)

=item $parser->unget_token($token1, $token2, ...)

This restores the token object(s) to the front of the parser stream.

=back

The source has to be set before you can parse anything. The lowest-level
way is to call C<set_source>:

=over

=item $parser->set_source($filename)

=item $parser->set_source($filehandle_object)

=item $parser->set_source(\$document_source)

=item $parser->set_source(\@document_lines)

=back

Or you can call these methods,
which Pod::Simple::PullParser has defined
to work just like Pod::Simple's same-named methods:

=over

=item $parser->parse_file(...)

=item $parser->parse_string_document(...)

=item $parser->filter(...)

=item $parser->parse_from_file(...)

=back

For those to work, the Pod-processing subclass of
Pod::Simple::PullParser has to have defined a $parser->run method --
so it is advised that all Pod::Simple::PullParser subclasses do so.
See the Synopsis above, or the source for Pod::Simple::RTF.

Authors of formatter subclasses might find these methods useful to
call on a parser object that you haven't started pulling tokens
from yet:

=over

=item my $title_string = $parser->get_title

This tries to get the title string out of $parser, by getting some tokens,
and scanning them for the title, and then ungetting them so that you can
process the token-stream from the beginning.

For example, suppose you have a document that starts out:

=head1 NAME

Hoo::Boy::Wowza -- Stuff B<wow> yeah!

$parser->get_title
on that document will return "Hoo::Boy::Wowza --
Stuff wow yeah!". If the document starts with:

=head1 Name

Hoo::Boy::W00t -- Stuff B<w00t> yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

 $parser->get_title(nocase => 1);

In cases where get_title can't find the title, it will return empty-string
("").

=item my $title_string = $parser->get_short_title

This is just like get_title, except that it returns just the modulename, if
the title seems to be of the form "SomeModuleName -- description".

For example, suppose you have a document that starts out:

 =head1 NAME

 Hoo::Boy::Wowza -- Stuff B<wow> yeah!

then $parser->get_short_title on that document will return
"Hoo::Boy::Wowza".

But if the document starts out:

 =head1 NAME

 Hooboy, stuff B<wow> yeah!

then $parser->get_short_title on that document will return "Hooboy,
stuff wow yeah!". If the document starts with:

 =head1 Name

 Hoo::Boy::W00t -- Stuff B<w00t>
 yeah!

Then you'll need to pass the C<nocase> option in order to recognize "Name":

 $parser->get_short_title(nocase => 1);

If the title can't be found, then get_short_title returns empty-string
("").

=item $author_name   = $parser->get_author

This works like get_title except that it returns the contents of the
"=head1 AUTHOR\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Author\n\nParagraph\n"

section, pass the C<nocase> option:

 $parser->get_author(nocase => 1);

(This method tolerates "AUTHORS" instead of "AUTHOR" too.)

=item $description_name = $parser->get_description

This works like get_title except that it returns the contents of the
"=head1 DESCRIPTION\n\nParagraph...\n" section, assuming that that section
isn't terribly long. To recognize a "=head1 Description\n\nParagraph\n"
section, pass the C<nocase> option:

 $parser->get_description(nocase => 1);

=item $version_block = $parser->get_version

This works like
 get_title except that it returns the contents of
the "=head1 VERSION\n\n[BIG BLOCK]\n" block. Note that this does NOT
return the module's C<$VERSION>!! To recognize a
"=head1 Version\n\n[BIG BLOCK]\n" section, pass the C<nocase> option:

 $parser->get_version(nocase => 1);

=back

=head1 NOTE

You don't actually I<have> to define a C<run> method. If you're
writing a Pod-formatter class, you should define a C<run> just so
that users can call C<parse_file> etc, but you don't I<have> to.

And if you're not writing a formatter class, but are instead just
writing a program that does something simple with a Pod::PullParser
object (and not an object of a subclass), then there's no reason to
bother subclassing to add a C<run> method.

=head1 SEE ALSO

L<Pod::Simple>

L<Pod::Simple::PullParserToken> -- and its subclasses
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<HTML::TokeParser>, which inspired this.

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=back

=cut

JUNK:

```
sub _old_get_title {  # some witchery in here
 my $self = $_[0];
 my $title;
 my @to_unget;

 while(1) {
  push @to_unget, $self->get_token;
  unless(defined $to_unget[-1]) { # whoops, short doc!
    pop @to_unget;
    last;
  }

  DEBUG and print STDERR "-Got token ", $to_unget[-1]->dump, "\n";

  (DEBUG and print STDERR "Too much in the buffer.\n"),
   last if @to_unget > 25; # sanity

  my $pattern = '';
  if( #$to_unget[-1]->type eq 'end'
      #and $to_unget[-1]->tagname eq 'Para'
      #and
      ($pattern = join('',
       map {;
          ($_->type eq 'start') ? ("<" . $_->tagname .">")
        : ($_->type eq 'end'  ) ? ("</". $_->tagname .">")
        : ($_->type eq 'text' ) ? ($_->text =~ m<^([A-Z]+)$>s ? $1 : 'X')
        : "BLORP"
       } @to_unget
    )) =~ m{<head1>NAME</head1><Para>(X|</?[BCIFLS]>)+</Para>$}s
  ) {
    # Whee, it fits the pattern
    DEBUG and print STDERR "Seems to match =head1 NAME pattern.\n";
    $title = '';
    foreach my $t (reverse @to_unget) {
      last if $t->type eq 'start' and $t->tagname eq 'Para';
      $title = $t->text . $title if $t->type eq 'text';
    }
    undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
    last;

  } elsif ($pattern =~ m{<head(\d)>(.+)</head\d>$}
    and !( $1 eq '1' and $2 eq 'NAME' )
  ) {
    # Well, it fits a fallback pattern
    DEBUG and print STDERR "Seems to match NAMEless pattern.\n";
    $title = '';
    foreach my $t (reverse @to_unget) {
      last if $t->type eq 'start' and $t->tagname =~ m/^head\d$/s;
```

```
      $title = $t->text . $title if $t->type eq 'text';
    }
    undef $title if $title =~ m<^\s*$>; # make sure it's contentful!
    last;

  } else {
    DEBUG and $pattern and print STDERR "Leading pattern: $pattern\n";
   }
}

# Put it all back:
$self->unget_token(@to_unget);

if(DEBUG) {
  if(defined $title) { print STDERR "  Returning title <$title>\n" }
  else { print STDERR "Returning title <>\n" }
}

return '' unless defined $title;
return $title;
}
```

Found in path(s):
* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParser.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::TextContent -- get the text content of Pod

=head1 SYNOPSIS

TODO

```
 perl -MPod::Simple::TextContent -e \
  "exit Pod::Simple::TextContent->filter(shift)->any_errata_seen" \
  thingy.pod
```

=head1 DESCRIPTION

This class is that parses Pod and dumps just the text content. It is
mainly meant for use by the Pod::Simple test suite, but you may find
some other use for it.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
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=back

=cut

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

=head1 NAME

Pod::Simple::HTML - convert Pod to HTML

=head1 SYNOPSIS

 perl -MPod::Simple::HTML -e Pod::Simple::HTML::go thingy.pod

=head1 DESCRIPTION

This class is for making an HTML rendering of a Pod document.

This is a subclass of L<Pod::Simple::PullParser> and inherits all its
methods (and options).

Note that if you want to do a batch conversion of a lot of Pod
documents to HTML, you should see the module L<Pod::Simple::HTMLBatch>.

=head1 CALLING FROM THE COMMAND LINE

TODO

 perl -MPod::Simple::HTML -e Pod::Simple::HTML::go Thing.pod Thing.html

=head1 CALLING FROM PERL

=head2 Minimal code

 use Pod::Simple::HTML;
 my $p = Pod::Simple::HTML->new;
 $p->output_string(\my $html);
 $p->parse_file('path/to/Module/Name.pm');
 open my $out, '>', 'out.html' or die "Cannot open 'out.html': $!\n";
 print $out $html;

=head2 More detailed example

 use Pod::Simple::HTML;

Set the content type:

```
 $Pod::Simple::HTML::Content_decl
 =  q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8" >};

 my $p = Pod::Simple::HTML->new;
```

Include a single javascript source:

```
 $p->html_javascript('http://abc.com/a.js');
```

Or insert multiple javascript source in the header
(or for that matter include anything, thought this is not recommended)

```
 $p->html_javascript('
    <script type="text/javascript" src="http://abc.com/b.js"></script>
    <script type="text/javascript" src="http://abc.com/c.js"></script>');
```

Include a single css source in the header:

```
 $p->html_css('/style.css');
```

or insert multiple css sources:

```
 $p->html_css('
    <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="http://remote.server.com/jquery.css">
    <link rel="stylesheet" type="text/css" title="pod_stylesheet" href="/style.css">');
```

Tell the parser where should the output go. In this case it will be placed in the $html variable:

```
 my $html;
 $p->output_string(\$html);
```

Parse and
process a file with pod in it:

```
 $p->parse_file('path/to/Module/Name.pm');
```

=head1 METHODS

TODO
all (most?) accessorized methods

The following variables need to be set B<before> the call to the ->new constructor.

Set the string that is included before the opening <html> tag:

```
 $Pod::Simple::HTML::Doctype_decl = qq{<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01
```

Transitional//EN"
  "http://www.w3.org/TR/html4/loose.dtd">\n};

Set the content-type in the HTML head: (defaults to ISO-8859-1)

 $Pod::Simple::HTML::Content_decl = q{<meta http-equiv="Content-Type" content="text/html; charset=UTF-8"
>};

Set the value that will be embedded in the opening tags of F, C tags and verbatim text.
F maps to , C maps to <code>, Verbatim text maps to <pre> (Computerese defaults to "")

 $Pod::Simple::HTML::Computerese = ' class="some_class_name';

=head2 html_css

=head2 html_javascript

=head2 title_prefix

=head2 title_postfix

=head2 html_header_before_title

This includes everything before
 the <title> opening tag including the Document type
and including the opening <title> tag. The following call will set it to be a simple HTML
file:

 $p->html_header_before_title('<html><head><title>');

=head2 top_anchor

By default Pod::Simple::HTML adds a dummy anchor at the top of the HTML.
You can change it by calling

 $p->top_anchor('<a name="zz" >');

=head2 html_h_level

Normally =head1 will become <h1>, =head2 will become <h2> etc.
Using the html_h_level method will change these levels setting the h level
of =head1 tags:

 $p->html_h_level(3);

Will make sure that =head1 will become <h3> and =head2 will become <h4> etc...

=head2 index

Set it to some true value if you want to have an index (in reality a table of contents)
to be added at the top of the generated HTML.

```
 $p->index(1);
```

=head2 html_header_after_title

Includes the closing tag of </title> and through the rest of the head
till the opening of the body

```
 $p->html_header_after_title('</title>...</head><body
 id="my_id">');
```

=head2 html_footer

The very end of the document:

```
 $p->html_footer( qq[\n<!-- end doc -->\n\n</body></html>\n] );
```

=head1 SUBCLASSING

Can use any of the methods described above but for further customization
one needs to override some of the methods:

```
 package My::Pod;
 use strict;
 use warnings;

 use base 'Pod::Simple::HTML';

 # needs to return a URL string such
 # http://some.other.com/page.html
 # #anchor_in_the_same_file
 # /internal/ref.html
 sub do_pod_link {
   # My::Pod object and Pod::Simple::PullParserStartToken object
   my ($self, $link) = @_;

   say $link->tagname;          # will be L for links
   say $link->attr('to');       #
   say $link->attr('type');     # will be 'pod' always
   say $link->attr('section');

   # Links local to our web site
   if ($link->tagname eq 'L' and $link->attr('type') eq 'pod') {
     my $to = $link->attr('to');
```

```
    if ($to =~ /^Padre::/) {
        $to =~ s{::}{/}g;
        return "/docs/Padre/$to.html";
     }
  }

  # all other links are generated by the parent class
  my $ret = $self->SUPER::do_pod_link($link);
  return $ret;
}

1;
```

Meanwhile in script.pl:

```
use My::Pod;

my $p = My::Pod->new;

my $html;
$p->output_string(\$html);
$p->parse_file('path/to/Module/Name.pm');
open my $out, '>', 'out.html' or die;
print $out $html;
```

TODO

maybe override do_beginning do_end

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>

TODO: a corpus of sample Pod input and HTML output? Or common
idioms?

=head1 SUPPORT

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=head1 ACKNOWLEDGEMENTS

Thanks to L<Hurricane Electric|http://he.net/> for permission to use its
L<Linux man pages online|http://man.he.net/> site for man page links.

Thanks to L<search.cpan.org|http://search.cpan.org/> for permission to use the
site for Perl module links.

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

=head1 NAME

Pod::Simple::XMLOutStream -- turn Pod into XML

=head1 SYNOPSIS

 perl -MPod::Simple::XMLOutStream -e \
  "exit Pod::Simple::XMLOutStream->filter(shift)->any_errata_seen" \
  thingy.pod

=head1 DESCRIPTION

Pod::Simple::XMLOutStream is a subclass of L<Pod::Simple> that parses
Pod and turns it into XML.

Pod::Simple::XMLOutStream inherits methods from
L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML> is rather like this class; see its
documentation for a discussion of the differences.

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>, L<Pod::SAX>

L<Pod::Simple::Subclassing>

The older (and possibly obsolete) libraries L<Pod::PXML>, L<Pod::XML>

=head1 ABOUT EXTENDING POD

TODO: An example or two of =extend, then point to Pod::Simple::Subclassing

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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

=head1 NAME

Pod::Simple::HTMLBatch - convert several Pod files to several HTML files

=head1 SYNOPSIS

 perl -MPod::Simple::HTMLBatch -e 'Pod::Simple::HTMLBatch::go' in out

=head1 DESCRIPTION

This module is used for running batch-conversions of a lot of HTML
documents

This class is NOT a subclass of Pod::Simple::HTML
(nor of bad old Pod::Html) -- although it uses
Pod::Simple::HTML for doing the conversion of each document.

The normal use of this class is like so:

 use Pod::Simple::HTMLBatch;
 my $batchconv = Pod::Simple::HTMLBatch->new;
 $batchconv->some_option(some_value);
 $batchconv->some_other_option(some_other_value);
 $batchconv->batch_convert(\@search_dirs, $output_dir);

=head2 FROM THE COMMAND LINE

Note that this class also provides
(but does not export) the function Pod::Simple::HTMLBatch::go.
This is basically just a shortcut for C<<
Pod::Simple::HTMLBatch->batch_convert(@ARGV) >>.
It's
 meant to be handy for calling from the command line.

However, the shortcut requires that you specify exactly two command-line
arguments, C<indirs> and C<outdir>.

Example:

 % mkdir out_html
 % perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go @INC out_html
    (to convert the pod from Perl's @INC
     files under the directory ./out_html)

(Note that the command line there contains a literal atsign-I-N-C. This

is handled as a special case by batch_convert, in order to save you having
to enter the odd-looking "" as the first command-line parameter when you
mean "just use whatever's in @INC".)

Example:

 % mkdir ../seekrut
 % chmod og-rx ../seekrut
 % perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go . ../seekrut
    (to convert the pod under the current dir into HTML
     files under the directory ./seekrut)

Example:

 % perl -MPod::Simple::HTMLBatch -e Pod::Simple::HTMLBatch::go happydocs .
    (to convert all pod from happydocs into the current
 directory)

=head1 MAIN METHODS

=over

=item $batchconv = Pod::Simple::HTMLBatch->new;

This TODO

=item $batchconv->batch_convert(I<indirs>, I<outdir>);

this TODO

=item $batchconv->batch_convert(undef   , ...);

=item $batchconv->batch_convert(q{@INC}, ...);

These two values for I<indirs> specify that the normal Perl @INC

=item $batchconv->batch_convert(\@dirs , ...);

This specifies that the input directories are the items in
the arrayref C<\@dirs>.

=item $batchconv->batch_convert("somedir" , ...);

This specifies that the director "somedir" is the input.
(This can be an absolute or relative path, it doesn't matter.)

A common value you might want would be just "." for the current
directory:

   $batchconv->batch_convert("." , ...);

=item $batchconv->batch_convert('somedir:someother:also' , ...);

This specifies that you want the dirs "somedir", "someother", and "also"
scanned, just as if you'd passed the arrayref
C<[qw(somedir someother also)]>. Note that
 a ":"-separator is normal
under Unix, but Under MSWin, you'll need C<'somedir;someother;also'>
instead, since the pathsep on MSWin is ";" instead of ":". (And
I<that> is because ":" often comes up in paths, like
C<"c:/perl/lib">.)

(Exactly what separator character should be used, is gotten from
C<$Config::Config{'path_sep'}>, via the L<Config> module.)

=item $batchconv->batch_convert(... , undef);

This specifies that you want the HTML output to go into the current
directory.

(Note that a missing or undefined value means a different thing in
the first slot than in the second. That's so that C<batch_convert()>
with no arguments (or undef arguments) means "go from @INC, into
the current directory.)

=item $batchconv->batch_convert(... , 'somedir');

This specifies that you want the HTML output to go into the
directory 'somedir'.
(This can be an absolute or relative path, it doesn't matter.)

=back

Note that you can also call C<batch_convert> as a class method,
like so:

 Pod::Simple::HTMLBatch->batch_convert(
 ...);

That is just short for this:

Pod::Simple::HTMLBatch-> new-> batch_convert(...);

That is, it runs a conversion with default options, for
whatever inputdirs and output dir you specify.

=head2 ACCESSOR METHODS

The following are all accessor methods -- that is, they don't do anything
on their own, but just alter the contents of the conversion object,
which comprises the options for this particular batch conversion.

We show the "put" form of the accessors below (i.e., the syntax you use
for setting the accessor to a specific value). But you can also
call each method with no parameters to get its current value. For
example, C<< $self->contents_file() >> returns the current value of
the contents_file attribute.

=over

=item $batchconv->verbose(I<nonnegative_integer>);

This controls how verbose to be during batch conversion, as far as
notes to STDOUT (or whatever is C<select>'d) about how the conversion
is going. If 0, no progress information
is printed.
If 1 (the default value), some progress information is printed.
Higher values print more information.

=item $batchconv->index(I<true-or-false>);

This controls whether or not each HTML page is liable to have a little
table of contents at the top (which we call an "index" for historical
reasons). This is true by default.

=item $batchconv->contents_file(I<filename>);

If set, should be the name of a file (in the output directory)
to write the HTML index to. The default value is "index.html".
If you set this to a false value, no contents file will be written.

=item $batchconv->contents_page_start(I<HTML_string>);

This specifies what string should be put at the beginning of
the contents page.

The default is a string more or less like this:

 <html>
 <head><title>Perl Documentation</title></head>
 <body class='contentspage'>
 <h1>Perl Documentation</h1>

=item $batchconv->contents_page_end(I<HTML_string>);

This specifies what string should be put at
 the end of the contents page.
The default is a string more or less like this:

 Generated by
 Pod::Simple::HTMLBatch v3.01 under Perl v5.008

At Fri May 14 22:26:42 2004 GMT,
 which is Fri May 14 14:26:42 2004 local time.

=item $batchconv->add_css($url);

TODO

=item $batchconv->add_javascript($url);

TODO

=item $batchconv->css_flurry(I<true-or-false>);

If true (the default value), we autogenerate some CSS files in the
output directory, and set our HTML files to use those.
TODO: continue

=item $batchconv->javascript_flurry(I<true-or-false>);

If true (the default value), we autogenerate a JavaScript in the
output directory, and set our HTML files to use it. Currently,
the JavaScript is used only to get the browser to remember what
stylesheet it prefers.
TODO: continue

=item $batchconv->no_contents_links(I<true-or-false>);

TODO

=item $batchconv->html_render_class(I<classname>);

This sets what class is used for rendering the files.
The
 default is "Pod::Simple::HTML". If you set it to something else,
it should probably be a subclass of Pod::Simple::HTML, and you should
C<require> or C<use> that class so that's it's loaded before
Pod::Simple::HTMLBatch tries loading it.

=item $batchconv->search_class(I<classname>);

This sets what class is used for searching for the files.
The default is "Pod::Simple::Search". If you set it to something else,
it should probably be a subclass of Pod::Simple::Search, and you should
C<require> or C<use> that class so that's it's loaded before
Pod::Simple::HTMLBatch tries loading it.

=back

=head1 NOTES ON CUSTOMIZATION

TODO

 call add_css($someurl) to add stylesheet as alternate
 call add_css($someurl,1) to add as primary stylesheet

 call add_javascript

 subclass Pod::Simple::HTML and set $batchconv->html_render_class to
   that classname
 and maybe override
   $page->batch_mode_page_object_init($self, $module, $infile, $outfile, $depth)
 or maybe override

  $batchconv->batch_mode_page_object_init($page, $module, $infile, $outfile, $depth)
 subclass Pod::Simple::Search and set $batchconv->search_class to
   that classname

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::HTMLBatch>, L<perlpod>, L<perlpodspec>

=head1 SUPPORT

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TODO: let it be an option whether a given subclass even wants little treelets?

__END__

=head1 NAME

Pod::Simple::LinkSection -- represent "section" attributes of L codes

=head1 SYNOPSIS

a long story

=head1 DESCRIPTION

This class is not of interest to general users.

Pod::Simple uses this class for representing the value of the
"section" attribute of "L" start-element events. Most applications
can just use the normal stringification of objects of this class;
they stringify to just the text content of the section,
such as "foo" for
C<< LZ<><Stuff/foo> >>, and "bar" for
C<< LZ<><Stuff/bIZ<><ar>> >>.

However, anyone particularly interested in getting the full value of
the treelet, can just traverse the content of the treeleet
@$treelet_object. To wit:

```
 % perl -MData::Dumper -e
   "use base qw(Pod::Simple::Methody);
    sub start_L { print Dumper($_[1]{'section'} ) }
    __PACKAGE__->new->parse_string_document('=head1
 L<Foo/bI<ar>baz>>')
   "
```

Output:

```
 $VAR1 = bless( [
                 '',
                 {},
                 'b',
                 bless( [
                         'I',
                         {},
                         'ar'
                       ], 'Pod::Simple::LinkSection' ),
                 'baz'
               ], 'Pod::Simple::LinkSection' );
```

But stringify it and you get just the text content:

```
 % perl -MData::Dumper -e
   "use base qw(Pod::Simple::Methody);
    sub start_L { print Dumper( " . $_[1]{'section'} ) }
    __PACKAGE__->new->parse_string_document('=head1 L<Foo/bI<ar>baz>>')
   "
Output:
 $VAR1 = 'barbaz';
```

=head1 SEE ALSO

L<Pod::Simple>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty email to
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to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

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=back

=cut

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

=head1 Pod::Simple version 3.33

Pod::Simple is a Perl library for parsing text in the Pod ("plain old
documentation") markup language that is typically used for writing
documentation for Perl and for Perl modules. The Pod format is explained
L<perlpod>; the most common formatter is called C<perldoc>.

Pod formatters can use Pod::Simple to parse Pod documents and render them into
plain text, HTML, or any number of other formats.

=head2 Installation

To install this module, type the following:

  perl Makefile.PL
  make
  make test
  make install

=head2 Support

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pod-people@perl.org mail list. Send an empty email to
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=item * Marc Green C<marcgreen@cpan.org>

=back

=cut

Found in path(s):
* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/README
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::Checker -- check the Pod syntax of a document

=head1 SYNOPSIS

```
 perl -MPod::Simple::Checker -e \
  "exit Pod::Simple::Checker->filter(shift)->any_errata_seen" \
  thingy.pod
```

=head1 DESCRIPTION

This class is for checking the syntactic validity of Pod.
It works by basically acting like a simple-minded version of
L<Pod::Simple::Text> that formats only the "Pod Errors" section
(if Pod::Simple even generates one for the given document).

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Checker>

=head1 SUPPORT

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

=head1 NAME

Pod::Simple::PullParserStartToken -- start-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser> object, you might
get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods,
and adds these methods:

=over

=item $token->tagname

This returns the tagname for this start-token object.
For example, parsing a "=head1 ..." line will give you
a start-token with the tagname of "head1", token(s) for its
content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this start-token object.
You probably won't need
to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for
 C<< $token->tag() eq I<somestring> >>

=item $token->attr(I<attrname>)

This returns the value of the I<attrname> attribute for this start-token
object, or undef.

For example, parsing a LZ<><Foo/"Bar"> link will produce a start-token
with a "to" attribute with the value "Foo", a "type" attribute with the
value "pod", and a "section" attribute with the value "Bar".

=item $token->attr(I<attrname>, I<newvalue>)

This sets the I<attrname> attribute for this start-token object to
I<newvalue>. You probably won't need to do this.

=item $token->attr_hash

This returns the hashref that is the attribute set for this start-token.
This is useful if (for example) you want to ask what all the attributes
are -- you can just do C<< keys %{$token->attr_hash} >>

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserStartToken->new(I<tagname>, I<attrhash>)
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>,
 L<Pod::Simple::Subclassing>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

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

=head1 NAME

Pod::Simple::Debug -- put Pod::Simple into trace/debug mode

=head1 SYNOPSIS

```
use Pod::Simple::Debug (5);  # or some integer

Or:

my $debuglevel;
use Pod::Simple::Debug (\$debuglevel, 0);
...some stuff that uses Pod::Simple to do stuff, but which
 you don't want debug output from...

$debug_level = 4;
...some stuff that uses Pod::Simple to do stuff, but which
 you DO want debug output from...

$debug_level = 0;

=head1 DESCRIPTION

This is an internal module for controlling the debug level (a.k.a. trace
level) of Pod::Simple.  This is of interest only to Pod::Simple
developers.


=head1 CAVEATS

Note that you should load this module I<before> loading Pod::Simple (or
any Pod::Simple-based class).  If you try loading Pod::Simple::Debug
after &Pod::Simple::DEBUG is already defined, Pod::Simple::Debug will
throw a fatal error to the effect that
"It's too late to call Pod::Simple::Debug".

Note that
 the C<use Pod::Simple::Debug (\$x, I<somenum>)> mode will make
Pod::Simple (et al) run rather slower, since &Pod::Simple::DEBUG won't
be a constant sub anymore, and so Pod::Simple (et al) won't compile with
constant-folding.


=head1 GUTS

Doing this:

 use Pod::Simple::Debug (5);  # or some integer

is basically equivalent to:

 BEGIN { sub Pod::Simple::DEBUG () {5} }  # or some integer
 use Pod::Simple ();
```

And this:

```
 use Pod::Simple::Debug (\$debug_level,0);  # or some integer
```

is basically equivalent to this:

```
 my $debug_level;
 BEGIN { $debug_level = 0 }
 BEGIN { sub Pod::Simple::DEBUG () { $debug_level }
 use Pod::Simple ();
```

=head1 SEE ALSO

L<Pod::Simple>

The article "Constants in Perl", in I<The Perl Journal> issue
21. See L<http://interglacial.com/tpj/21/>

=head1 SUPPORT

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pod-people@perl.org mail list. Send an empty email to
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=cut

Found in path(s):
* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/Debug.pm
No license file was found, but licenses were detected in source scan.

=head1 NAME

Pod::Simple::PullParserEndToken -- end-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might
get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods,
and adds these methods:

=over

=item $token->tagname

This returns the tagname for this end-token object.
For example, parsing a "=head1 ..." line will give you
a start-token with the tagname of "head1", token(s) for its
content, and then an end-token with the tagname of "head1".

=item $token->tagname(I<somestring>)

This changes the tagname for this end-token object.

You probably won't need to do this.

=item $token->tag(...)

A shortcut for $token->tagname(...)

=item $token->is_tag(I<somestring>) or $token->is_tagname(I<somestring>)

These are shortcuts for C<< $token->tag()
 eq I<somestring> >>

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserEndToken->new(I<tagname>)
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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=head1 NAME

Pod::Simple::DumpAsText -- dump Pod-parsing events as text

=head1 SYNOPSIS

```
 perl -MPod::Simple::DumpAsText -e \
  "exit Pod::Simple::DumpAsText->filter(shift)->any_errata_seen" \
  thingy.pod
```

=head1 DESCRIPTION

This class is for dumping, as text, the events gotten from parsing a Pod
document. This class is of interest to people writing Pod formatters
based on Pod::Simple. It is useful for seeing exactly what events you
get out of some Pod that you feed in.

This is a subclass of L<Pod::Simple> and inherits all its methods.

=head1 SEE ALSO

L<Pod::Simple::DumpAsXML>

L<Pod::Simple>

=head1 SUPPORT

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Removed "All rights reserved" from all files.

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research purposes), Cygwin is covered by the GNU Public License (but
statements like ``This is unpublished proprietary software of XYZ Corp.
Your access to it does not give you permission to use it blah blah
All rights reserved.

Found in path(s):
* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/t/perlfaq.pod
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NAME
perlfaq3 - Programming Tools ($Revision: 1.38 $, $Date: 1999/05/23 16:08:30 $)
DESCRIPTION
This section of the FAQ answers questions related to programmer tools and programming support.
How do I do (anything)?
Have you looked at CPAN (see perlfaq2)? The chances are that someone has already written a module that can solve your problem. Have you read the appropriate man pages? Here's a brief index:

Basics	perldata, perlvar, perlsyn, perlop, perlsub
Execution	perlrun, perldebug
Functions	perlfunc
Objects	perlref, perlmod, perlobj, perltie
Data Structures	perlref, perllol, perldsc
Modules	perlmod, perlmodlib, perlsub
Regexes	perlre, perlfunc, perlop, perllocale
Moving to perl5	perltrap, perl
Linking w/C	perlxstut, perlxs, perlcall, perlguts, perlembed
Various	http://www.perl.com/CPAN/doc/FMTEYEWTK/index.html (not a man-page but still useful)

A crude table of contents for the Perl man page set is found in perltoc.
How can I use Perl interactively?
The typical approach uses the Perl debugger, described in the perldebug(1) man page, on an ``empty'' program, like this:

```
perl -de 42
```

Now just type in any legal Perl code, and it will be immediately evaluated. You can also examine the symbol table, get stack backtraces, check variable values, set breakpoints, and other operations typically found in symbolic debuggers.
Is there a Perl shell?
In general, no. The Shell.pm module (distributed with Perl) makes Perl try commands which aren't part of the Perl language as shell commands. perlsh from the source distribution is simplistic and uninteresting, but may still be

what you want.

How do I debug my Perl programs?

Have you tried use warnings or used -w? They enable warnings to detect dubious practices.

Have you tried use strict? It prevents you from
using symbolic references, makes you predeclare any subroutines that you call as bare words, and (probably most importantly) forces you to predeclare your variables with my, our, or use vars.

Did you check the return values of each and every system call? The operating system (and thus Perl) tells you whether they worked, and if not why.

```
open(FH, "> /etc/cantwrite")
  or die "Couldn't write to /etc/cantwrite: $!\n";
```

Did you read perltrap? It's full of gotchas for old and new Perl programmers and even has sections for those of you who are upgrading from languages like awk and C.

Have you tried the Perl debugger, described in perldebug? You can step through your program and see what it's doing and thus work out why what it's doing isn't what it should be doing.

How do I profile my Perl programs?

You should get the Devel::DProf module from the standard distribution (or separately on CPAN) and also use Benchmark.pm from the standard distribution. The Benchmark module lets you time specific
portions of your code, while Devel::DProf gives detailed breakdowns of where your code spends its time.

Here's a sample use of Benchmark:

```
use Benchmark;
@junk = `cat /etc/motd`;
$count = 10_000;
timethese($count, {
        'map' => sub { my @a = @junk;
                       map { s/a/b/ } @a;
                       return @a
                     },
        'for' => sub { my @a = @junk;
                       local $_;
                       for (@a) { s/a/b/ };
                       return @a },
       });
```

This is what it prints (on one machine--your results will be dependent on your hardware, operating system, and the load on your machine):

```
Benchmark: timing 10000 iterations of for, map...
      for:  4 secs ( 3.97 usr  0.01 sys =  3.98 cpu)
      map:  6 secs ( 4.97 usr  0.00 sys =  4.97 cpu)
```

Be aware that a good benchmark is very hard to write. It only tests the data you give it and proves little about the differing complexities
of contrasting algorithms.

How do I cross-reference my Perl programs?

The B::Xref module, shipped with the new, alpha-release Perl compiler (not the general distribution prior to the 5.005 release), can be used to generate cross-reference reports for Perl programs.

```
  perl -MO=Xref[,OPTIONS] scriptname.plx
```

Is there a pretty-printer (formatter) for Perl?

There is no program that will reformat Perl as much as indent(1) does for C. The complex feedback between the scanner and the parser (this feedback is what confuses the vgrind and emacs programs) makes it challenging at best to write a stand-alone Perl parser.

Of course, if you simply follow the guidelines in perlstyle, you shouldn't need to reformat. The habit of formatting your code as you write it will help prevent bugs. Your editor can and should help you with this. The perl-mode or newer cperl-mode for emacs can provide remarkable amounts of help with most (but not all) code, and even less programmable editors can provide
significant assistance. Tom swears by the following settings in vi and its clones:

```
set ai sw=4
map! ^O {^M}^[O^T
```

Now put that in your .exrc file (replacing the caret characters with control characters) and away you go. In insert mode, ^T is for indenting, ^D is for undenting, and ^O is for blockdenting-- as it were. If you haven't used the last one, you're missing a lot. A more complete example, with comments, can be found at http://www.perl.com/CPAN-local/authors/id/TOMC/scripts/toms.exrc.gz

If you are used to using the vgrind program for printing out nice code to a laser printer, you can take a stab at this using http://www.perl.com/CPAN/doc/misc/tips/working.vgrind.entry, but the results are not particularly satisfying for sophisticated code.

The a2ps at http://www.infres.enst.fr/%7Edemaille/a2ps/ does lots of things related to generating nicely printed output of documents.

Is there a ctags for Perl?

There's a simple one at http://www.perl.com/CPAN/authors/id/TOMC/scripts/ptags.gz
which may do the trick. And if not, it's easy to hack into what you want.

Is there an IDE or Windows Perl Editor?

Perl programs are just plain text, so any editor will do.

If you're on Unix, you already have an IDE--Unix itself. The UNIX philosophy is the philosophy of several small tools that each do one thing and do it well. It's like a carpenter's toolbox.

If you want a Windows IDE, check the following:

CodeMagicCD

http://www.codemagiccd.com/

Komodo

ActiveState's cross-platform, multi-language IDE has Perl support, including a regular expression debugger and remote debugging (http://www.ActiveState.com/Products/Komodo/index.html). (Visual Perl, a Visual Studio.NET plug-in is currently (early 2001) in beta (http://www.ActiveState.com/Products/VisualPerl/index.html)).

The Object System

(http://www.castlelink.co.uk/object_system/) is a Perl web applications development IDE.

PerlBuilder

(http://www.solutionsoft.com/perl.htm) is an integrated development environment for Windows that
supports Perl development.

Perl code magic

(http://www.petes-place.com/codemagic.html).

visiPerl+

http://helpconsulting.net/visiperl/, from Help Consulting.

For editors: if you're on Unix you probably have vi or a vi clone already, and possibly an emacs too, so you may not need to download anything. In any emacs the cperl-mode (M-x cperl-mode) gives you perhaps the best available Perl editing mode in any editor.

For Windows editors: you can download an Emacs

GNU Emacs

http://www.gnu.org/software/emacs/windows/ntemacs.html

MicroEMACS

http://members.nbci.com/uemacs/

XEmacs

http://www.xemacs.org/Download/index.html
or a vi clone such as
Elvis
ftp://ftp.cs.pdx.edu/pub/elvis/ http://www.fh-wedel.de/elvis/
Vile
http://vile.cx/
Vim
http://www.vim.org/
win32: http://www.cs.vu.nl/%7Etmgil/vi.html
For vi lovers in general, Windows or elsewhere: http://www.thomer.com/thomer/vi/vi.html.
nvi (http://www.bostic.com/vi/, available from CPAN in src/misc/) is yet another vi clone, unfortunately not available for Windows, but in UNIX platforms you might be interested in trying it out, firstly because strictly speaking it is not a vi clone, it is the real vi, or the new incarnation of it, and secondly because you can embed Perl inside it to use Perl as the scripting language. nvi is not alone in this, though: at least also vim and vile offer an embedded Perl.
The following are Win32 multilanguage editor/IDESs that support Perl:
Codewright
http://www.starbase.com/
MultiEdit
http://www.MultiEdit.com/
SlickEdit
http://www.slickedit.com/
There is also a toyedit Text widget based editor written in Perl that is distributed with the Tk module on CPAN. The ptkdb (http://world.std.com/~aep/ptkdb/) is a Perl/tk based debugger that acts as a development environment of sorts. Perl Composer (http://perlcomposer.sourceforge.net/vperl.html) is an IDE for Perl/Tk GUI creation.
In addition to an editor/IDE you might be interested in a more powerful shell environment for Win32. Your options include
Bash
from
the Cygwin package (http://sources.redhat.com/cygwin/)
Ksh
from the MKS Toolkit (http://www.mks.com/), or the Bourne shell of the U/WIN environment (http://www.research.att.com/sw/tools/uwin/)
Tcsh
ftp://ftp.astron.com/pub/tcsh/, see also http://www.primate.wisc.edu/software/csh-tcsh-book/
Zsh
ftp://ftp.blarg.net/users/amol/zsh/, see also http://www.zsh.org/
MKS and U/WIN are commercial (U/WIN is free for educational and research purposes), Cygwin is covered by the GNU Public License (but that shouldn't matter for Perl use). The Cygwin, MKS, and U/WIN all contain (in addition to the shells) a comprehensive set of standard UNIX toolkit utilities.
If you're transferring text files between Unix and Windows using FTP be sure to transfer them in ASCII mode so the ends of lines are appropriately converted.
On Mac OS the MacPerl Application comes with a simple 32k text editor that behaves like a rudimentary IDE. In contrast to the MacPerl Application the MPW Perl tool can make use of
the MPW Shell itself as an editor (with no 32k limit).
BBEdit and BBEdit Lite
are text editors for Mac OS that have a Perl sensitivity mode (http://web.barebones.com/).
Alpha

is an editor, written and extensible in Tcl, that nonetheless has built in support for several popular markup and programming languages including Perl and HTML (http://alpha.olm.net/).
Pepper and Pe are programming language sensitive text editors for Mac OS X and BeOS respectively (http://www.hekkelman.com/).
Where can I get Perl macros for vi?
For a complete version of Tom Christiansen's vi configuration file, see http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/toms.exrc.gz , the standard benchmark file for vi emulators. The file runs best with nvi, the current version of vi out of Berkeley, which incidentally can be built with an embedded Perl interpreter--see http://www.perl.com/CPAN/src/misc.
Where can I get perl-mode for emacs?
Since Emacs version 19 patchlevel 22 or so, there have been both a perl-mode.el and support for the Perl debugger built in. These should come with the standard Emacs 19 distribution.
In the Perl source directory, you'll find a directory called "emacs", which contains a cperl-mode that color-codes keywords, provides context-sensitive help, and other nifty things.
Note that the perl-mode of emacs will have fits with "main'foo" (single quote), and mess up the indentation and highlighting. You are probably using "main::foo" in new Perl code anyway, so this shouldn't be an issue.
How can I use curses with Perl?
The Curses module from CPAN provides a dynamically loadable object module interface to a curses library. A small demo can be found at the directory http://www.perl.com/CPAN/authors/Tom_Christiansen/scripts/rep; this program repeats a command and updates the screen as needed, rendering rep ps axu similar to top.
How can I use X or Tk with Perl?
Tk is a completely Perl-based, object-oriented interface to the Tk toolkit that doesn't force you to use Tcl just to get at Tk. Sx is an interface to the Athena Widget set. Both are available from CPAN. See the directory http://www.perl.com/CPAN/modules/by-category/08_User_Interfaces/
Invaluable for Perl/Tk programming are the Perl/Tk FAQ at http://w4.lns.cornell.edu/%7Epvhp/ptk/ptkTOC.html , the Perl/Tk Reference Guide available at http://www.perl.com/CPAN-local/authors/Stephen_O_Lidie/ , and the online manpages at http://www-users.cs.umn.edu/%7Eamundson/perl/perltk/toc.html .
How can I generate simple menus without using CGI or Tk?
The http://www.perl.com/CPAN/authors/id/SKUNZ/perlmenu.v4.0.tar.gz module, which is curses-based, can help with this.
What is undump?
See the next question on ``How can I make my Perl program run faster?"
How can I make my Perl program run faster?
The best way to do this is to come up with a better algorithm. This can often make a dramatic difference. Jon Bentley's book ``Programming Pearls" (that's not a misspelling!) has some good tips on optimization, too. Advice on benchmarking boils down to: benchmark and profile to make sure you're optimizing the right part, look for better algorithms instead of microtuning your code, and when all else fails consider just buying faster hardware.
A different approach is to autoload seldom-used Perl code. See the AutoSplit and AutoLoader modules in the standard distribution for that. Or you could locate the bottleneck and think about writing just that part in C, the way we used to take bottlenecks in C code and write them in assembler. Similar to rewriting in C, modules that have critical sections can be written in C (for instance, the PDL module from CPAN).
In some cases, it may be worth it to use the backend compiler to produce byte code (saving compilation time) or compile into C, which will certainly save compilation time and sometimes a small amount (but not much) execution time. See the question about compiling your Perl programs for more on the compiler--the wins aren't as obvious as you'd hope.
If you're currently linking your perl executable to a shared libc.so, you can often gain a 10-25% performance benefit by rebuilding it to link with a static libc.a instead. This will make a bigger perl executable, but your Perl programs

(and programmers) may thank you for it. See the INSTALL file in the source distribution for more information.
Unsubstantiated reports allege that Perl interpreters that use sfio outperform those that don't (for I/O intensive applications). To try this, see the INSTALL file in the source distribution, especially the ``Selecting File I/O mechanisms'' section.
The undump program was an old attempt to speed up your Perl program by storing the already-compiled form to disk. This is no longer a viable option, as it only worked on a few architectures, and wasn't a good solution anyway.
How can I make my Perl program take less memory?
When it comes to time-space tradeoffs, Perl nearly always prefers to throw memory at a problem. Scalars in Perl use more memory than
strings in C, arrays take more than that, and hashes use even more. While there's still a lot to be done, recent releases have been addressing these issues. For example, as of 5.004, duplicate hash keys are shared amongst all hashes using them, so require no reallocation.
In some cases, using substr() or vec() to simulate arrays can be highly beneficial. For example, an array of a thousand booleans will take at least 20,000 bytes of space, but it can be turned into one 125-byte bit vector--a considerable memory savings. The standard Tie::SubstrHash module can also help for certain types of data structure. If you're working with specialist data structures (matrices, for instance) modules that implement these in C may use less memory than equivalent Perl modules.
Another thing to try is learning whether your Perl was compiled with the system malloc or with Perl's builtin malloc. Whichever one it is, try using the other one and see whether this makes a difference. Information about malloc
is in the INSTALL file in the source distribution. You can find out whether you are using perl's malloc by typing perl -V:usemymalloc.
Is it unsafe to return a pointer to local data?
No, Perl's garbage collection system takes care of this.

```
  sub makeone {
      my @a = ( 1 .. 10 );
      return \@a;
  }
  for $i ( 1 .. 10 ) {
      push @many, makeone();
  }
  print $many[4][5], "\n";
  print "@many\n";
```

How can I free an array or hash so my program shrinks?
You can't. On most operating systems, memory allocated to a program can never be returned to the system. That's why long-running programs sometimes re-exec themselves. Some operating systems (notably, FreeBSD and Linux) allegedly reclaim large chunks of memory that is no longer used, but it doesn't appear to happen with Perl (yet). The Mac appears to be the only platform that will reliably (albeit, slowly) return memory to the OS.
We've had reports that on Linux (Redhat 5.1) on Intel, undef $scalar will return
memory to the system, while on Solaris 2.6 it won't. In general, try it yourself and see.
However, judicious use of my() on your variables will help make sure that they go out of scope so that Perl can free up that space for use in other parts of your program. A global variable, of course, never goes out of scope, so you can't get its space automatically reclaimed, although undef()ing and/or delete()ing it will achieve the same effect. In general, memory allocation and de-allocation isn't something you can or should be worrying about much in Perl, but even this capability (preallocation of data types) is in the works.
How can I make my CGI script more efficient?
Beyond the normal measures described to make general Perl programs faster or smaller, a CGI program has additional issues. It may be run several times per second. Given that each time it runs it will need to be re-compiled and will often allocate a megabyte or more of system memory, this can be a killer. Compiling into C isn't

going to help you because the process start-up overhead is where the bottleneck is.

There are two popular ways to avoid this overhead. One solution involves running the Apache HTTP server (available from http://www.apache.org/) with either of the mod_perl or mod_fastcgi plugin modules.

With mod_perl and the Apache::Registry module (distributed with mod_perl), httpd will run with an embedded Perl interpreter which pre-compiles your script and then executes it within the same address space without forking. The Apache extension also gives Perl access to the internal server API, so modules written in Perl can do just about anything a module written in C can. For more on mod_perl, see http://perl.apache.org/

With the FCGI module (from CPAN) and the mod_fastcgi module (available from http://www.fastcgi.com/) each of your Perl programs becomes a permanent CGI daemon process.

Both of these solutions can have far-reaching effects on your system and on the way you write your CGI programs, so investigate

them with care.

See http://www.perl.com/CPAN/modules/by-category/15_World_Wide_Web_HTML_HTTP_CGI/ .

A non-free, commercial product, ``The Velocity Engine for Perl'', (http://www.binevolve.com/ or http://www.binevolve.com/velocigen/) might also be worth looking at. It will allow you to increase the performance of your Perl programs, running programs up to 25 times faster than normal CGI Perl when running in persistent Perl mode or 4 to 5 times faster without any modification to your existing CGI programs. Fully functional evaluation copies are available from the web site.

How can I hide the source for my Perl program?

Delete it. :-) Seriously, there are a number of (mostly unsatisfactory) solutions with varying levels of ``security''.

First of all, however, you can't take away read permission, because the source code has to be readable in order to be compiled and interpreted. (That doesn't mean that a CGI script's source is readable by people on the web, though--only by people

with access to the filesystem.) So you have to leave the permissions at the socially friendly 0755 level.

Some people regard this as a security problem. If your program does insecure things and relies on people not knowing how to exploit those insecurities, it is not secure. It is often possible for someone to determine the insecure things and exploit them without viewing the source. Security through obscurity, the name for hiding your bugs instead of fixing them, is little security indeed.

You can try using encryption via source filters (Filter::* from CPAN), but any decent programmer will be able to decrypt it. You can try using the byte code compiler and interpreter described below, but the curious might still be able to de-compile it. You can try using the native-code compiler described below, but crackers might be able to disassemble it. These pose varying degrees of difficulty to people wanting to get at your code, but none can definitively conceal it (true of every language, not

just Perl).

If you're concerned about people profiting from your code, then the bottom line is that nothing but a restrictive license will give you legal security. License your software and pepper it with threatening statements like ``This is unpublished proprietary software of XYZ Corp. Your access to it does not give you permission to use it blah blah blah.'' We are not lawyers, of course, so you should see a lawyer if you want to be sure your license's wording will stand up in court.

How can I compile my Perl program into byte code or C?

Malcolm Beattie has written a multifunction backend compiler, available from CPAN, that can do both these things. It is included in the perl5.005 release, but is still considered experimental. This means it's fun to play with if you're a programmer but not really for people looking for turn-key solutions.

Merely compiling into C does not in and of itself guarantee that your code will run very much faster. That's because except for lucky cases where

a lot of native type inferencing is possible, the normal Perl run-time system is still present and so your program will take just as long to run and be just as big. Most programs save little more than compilation time, leaving execution no more than 10-30% faster. A few rare programs actually benefit significantly (even running several times faster),

but this takes some tweaking of your code.

You'll probably be astonished to learn that the current version of the compiler generates a compiled form of your script whose executable is just as big as the original perl executable, and then some. That's because as currently written, all programs are prepared for a full eval() statement. You can tremendously reduce this cost by building a shared libperl.so library and linking against that. See the INSTALL podfile in the Perl source distribution for details. If you link your main perl binary with this, it will make it minuscule. For example, on one author's system, /usr/bin/perl is only 11k in
size!

In general, the compiler will do nothing to make a Perl program smaller, faster, more portable, or more secure. In fact, it can make your situation worse. The executable will be bigger, your VM system may take longer to load the whole thing, the binary is fragile and hard to fix, and compilation never stopped software piracy in the form of crackers, viruses, or bootleggers. The real advantage of the compiler is merely packaging, and once you see the size of what it makes (well, unless you use a shared libperl.so), you'll probably want a complete Perl install anyway.

How can I compile Perl into Java?

You can also integrate Java and Perl with the Perl Resource Kit from O'Reilly and Associates. See http://www.oreilly.com/catalog/prkunix/ .

Perl 5.6 comes with Java Perl Lingo, or JPL. JPL, still in development, allows Perl code to be called from Java. See jpl/README in the Perl source tree.

How can I get #!perl to work on [MS-DOS,NT,...]?

For OS/2 just use

```
extproc perl -S -your_switches
```

as
the first line in *.cmd file (-S due to a bug in cmd.exe's `extproc' handling). For DOS one should first invent a corresponding batch file and codify it in ALTERNATIVE_SHEBANG (see the INSTALL file in the source distribution for more information).

The Win95/NT installation, when using the ActiveState port of Perl, will modify the Registry to associate the .pl extension with the perl interpreter. If you install another port, perhaps even building your own Win95/NT Perl from the standard sources by using a Windows port of gcc (e.g., with cygwin or mingw32), then you'll have to modify the Registry yourself. In addition to associating .pl with the interpreter, NT people can use: SET PATHEXT=%PATHEXT%;.PL to let them run the program install-linux.pl merely by typing install-linux.

Macintosh Perl programs will have the appropriate Creator and Type, so that double-clicking them will invoke the Perl application.

IMPORTANT!: Whatever you do, PLEASE don't get frustrated, and just throw
the perl interpreter into your cgi-bin directory, in order to get your programs working for a web server. This is an EXTREMELY big security risk. Take the time to figure out how to do it correctly.

Can I write useful Perl programs on the command line?

Yes. Read perlrun for more information. Some examples follow. (These assume standard Unix shell quoting rules.)

```
# sum first and last fields
perl -lane 'print $F[0] + $F[-1]' *
# identify text files
perl -le 'for(@ARGV) {print if -f && -T _}' *
# remove (most) comments from C program
perl -0777 -pe 's{/\*.*?\*/}{}gs' foo.c
# make file a month younger than today, defeating reaper daemons
perl -e '$X=24*60*60; utime(time(),time() + 30 * $X,@ARGV)' *
# find first unused uid
perl -le '$i++ while getpwuid($i); print $i'
# display reasonable manpath
```

```
  echo $PATH | perl -nl -072 -e '
      s![^/+]*$!man!&&-d&&!$s{$_}++&&push@m,$_;END{print"@m"}'
```

OK, the last one was actually an Obfuscated Perl Contest entry. :-)

Why don't Perl one-liners work on my DOS/Mac/VMS system?

The problem is usually that the command interpreters on those systems have rather different ideas about quoting than the Unix shells under which the one-liners were created. On some systems, you may have to change single-quotes to double ones, which you must NOT do on Unix or Plan9 systems. You might also have to change a single % to a %%.

For example:

```
  # Unix
  perl -e 'print "Hello world\n"'
  # DOS, etc.
  perl -e "print \"Hello world\n\""
  # Mac
  print "Hello world\n"
   (then Run "Myscript" or Shift-Command-R)
  # VMS
  perl -e "print ""Hello world\n"""
```

The problem is that none of these examples are reliable: they depend on the command interpreter. Under Unix, the first two often work. Under DOS, it's entirely possible that neither works. If 4DOS was the command shell, you'd probably have better luck like this:

```
 perl -e "print <Ctrl-x>"Hello world\n<Ctrl-x>""
```

Under the Mac, it depends which environment you are using. The MacPerl shell, or MPW, is much like Unix shells in its support for several quoting variants, except that it makes free use of the Mac's non-ASCII characters as control characters.

Using qq(), q(), and qx(), instead of "double quotes", 'single quotes', and `backticks`, may make one-liners easier to write.

There is no general solution to all of this. It is a mess, pure and simple. Sucks to be away from Unix, huh? :-)

[Some of this answer was contributed by Kenneth Albanowski.]

Where can I learn about CGI or Web programming in Perl?

For modules, get the CGI or LWP modules from CPAN. For textbooks, see the two especially dedicated to web stuff in the question on books. For problems and questions related to the web, like ``Why do I get 500 Errors" or ``Why doesn't it run from the browser right when it runs fine on the command line", see these sources:

```
  WWW Security FAQ
     http://www.w3.org/Security/Faq/
  Web FAQ
     http://www.boutell.com/faq/
   CGI FAQ
     http://www.webthing.com/tutorials/cgifaq.html
  HTTP Spec
     http://www.w3.org/pub/WWW/Protocols/HTTP/
  HTML Spec
     http://www.w3.org/TR/REC-html40/
     http://www.w3.org/pub/WWW/MarkUp/
  CGI Spec
     http://www.w3.org/CGI/
  CGI Security FAQ
```

http://www.go2net.com/people/paulp/cgi-security/safe-cgi.txt

Where can I learn about object-oriented Perl programming?

A good place to start is perltoot, and you can use perlobj, perlboot, and perlbot for reference. Perltoot didn't come out until the 5.004 release; you can get a copy (in pod, html, or postscript) from http://www.perl.com/CPAN/doc/FMTEYEWTK/ .

Where can I learn about linking C with Perl? [h2xs, xsubpp]

If you want to call C from Perl, start with perlxstut, moving on to perlxs, xsubpp, and perlguts. If you want to call Perl from C, then read perlembed, perlcall, and perlguts. Don't forget that you can learn a lot from looking at how the authors of existing extension modules
wrote their code and solved their problems.

I've read perlembed, perlguts, etc., but I can't embed perl in my C program; what am I doing wrong?

Download the ExtUtils::Embed kit from CPAN and run `make test'. If the tests pass, read the pods again and again and again. If they fail, see perlbug and send a bug report with the output of make test TEST_VERBOSE=1 along with perl -V.

When I tried to run my script, I got this message. What does it mean?

A complete list of Perl's error messages and warnings with explanatory text can be found in perldiag. You can also use the splain program (distributed with Perl) to explain the error messages:

```
  perl program 2>diag.out
  splain [-v] [-p] diag.out
```

or change your program to explain the messages for you:

```
  use diagnostics;
```

or

```
  use diagnostics -verbose;
```

What's MakeMaker?

This module (part of the standard Perl distribution) is designed to write a Makefile for an extension module from a Makefile.PL. For more information, see ExtUtils::MakeMaker.

AUTHOR
AND COPYRIGHT

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Irrespective of its distribution, all code examples here are in the public domain. You are permitted and encouraged to use this code and any derivatives thereof in your own programs for fun or for profit as you see fit. A simple comment in the code giving credit to the FAQ would be courteous but is not required.

Found in path(s):

* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/t/perlfaqo.txt

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

=head1 NAME

Pod::Simple::PullParserTextToken -- text-tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

(See L<Pod::Simple::PullParser>)

=head1 DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you might
get an object of this class.

This is a subclass of L<Pod::Simple::PullParserToken> and inherits all its methods,
and adds these methods:

=over

=item $token->text

This returns the text that this token holds. For example, parsing
CZ<><foo> will return a C start-token, a text-token, and a C end-token. And
if you want to get the "foo" out of the text-token, call C<< $token->text >>

=item $token->text(I<somestring>)

This changes the string that this token holds. You probably won't need
to do this.

=item $token->text_r()

This returns a scalar reference to the string that this token holds.
This can be useful if you don't want to memory-copy the potentially
large text value (well, as
 large as a paragraph or a verbatim block)
as calling $token->text would do.

Or, if you want to alter the value, you can even do things like this:

```
 for ( ${  $token->text_r  } ) {  # Aliases it with $_ !!

   s/ The / the /g; # just for example

   if( 'A' eq chr(65) ) {  # (if in an ASCII world)
     tr/\xA0/ /;
     tr/\xAD//d;
   }

   ...or however you want to alter the value...
   (Note that starting with Perl v5.8, you can use, e.g.,

       my $nbsp = chr utf8::unicode_to_native(0xA0);
       s/$nbsp/ /g;

   to handle the above regardless if it's an ASCII world or not)
```

```
 }

=back

You're unlikely to ever need to construct an object of this class for
yourself, but if you want to, call
C<<
Pod::Simple::PullParserTextToken->new( I<text> )
>>

=head1 SEE ALSO

L<Pod::Simple::PullParserToken>, L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

Questions or discussion about POD and Pod::Simple should be sent to the
pod-people@perl.org mail list. Send an empty
 email to
pod-people-subscribe@perl.org to subscribe.

This module is managed in an open GitHub repository,
L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
to clone L<git://github.com/perl-pod/pod-simple.git> and send patches!

Patches against Pod::Simple are welcome. Please send bug reports to
<bug-pod-simple@rt.cpan.org>.

=head1 COPYRIGHT AND DISCLAIMERS

Copyright (c) 2002 Sean M. Burke.

This library is free software; you can redistribute it and/or modify it
under the same terms as Perl itself.

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.

=head1 AUTHOR

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
But don't bother him, he's retired.

Pod::Simple is maintained by:

=over
```

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found
 in path(s):
* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserTextToken.pm
No license file was found, but licenses were detected in source scan.

```
sub dump { '[' . _esc( @{ $_[0] } ) . ']' }

# JUNK:

sub _esc {
 return '' unless @_;
 my @out;
 foreach my $in (@_) {
   push @out, '"' . $in . '"';
   $out[-1] =~ s/([^- \:\:\.\,\'\>\<\"\/\=\?\+\|\[\]\{\}\_a-zA-Z0-9_\`\~\!\#\%\^\&\*\(\)])/
     sprintf( (ord($1) < 256) ? "\\x%02X" : "\\x{%X}", ord($1))
   /eg;
 }
 return join ', ', @out;
}


__END__

=head1 NAME

Pod::Simple::PullParserToken -- tokens from Pod::Simple::PullParser

=head1 SYNOPSIS

Given a $parser that's an object of class Pod::Simple::PullParser
(or a subclass)...

 while(my $token = $parser->get_token) {
   $DEBUG and print STDERR "Token: ", $token->dump, "\n";
   if($token->is_start) {
     ...access $token->tagname, $token->attr, etc...
```

```
  } elsif($token->is_text) {
    ...access $token->text, $token->text_r, etc...

  } elsif($token->is_end) {
    ...access $token->tagname...

  }
}
```

(Also see L<Pod::Simple::PullParser>)

=head1
DESCRIPTION

When you do $parser->get_token on a L<Pod::Simple::PullParser>, you should get an object of a subclass of Pod::Simple::PullParserToken.

Subclasses will add methods, and will also inherit these methods:

=over

=item $token->type

This returns the type of the token. This will be either the string "start", the string "text", or the string "end".

Once you know what the type of an object is, you then know what subclass it belongs to, and therefore what methods it supports.

Yes, you could probably do the same thing with code like $token->isa('Pod::Simple::PullParserEndToken'), but that's not so pretty as using just $token->type, or even the following shortcuts:

=item $token->is_start

This is a shortcut for C<< $token->type() eq "start" >>

=item $token->is_text

This is a shortcut for C<< $token->type() eq "text" >>

=item $token->is_end

This is a shortcut for C<< $token->type() eq "end" >>

=item $token->dump

This returns a handy stringified value of this object.
 This
is useful for debugging, as in:

```
 while(my $token = $parser->get_token) {
   $DEBUG and print STDERR "Token: ", $token->dump, "\n";
   ...
 }
```

=back

=head1 SEE ALSO

My subclasses:
L<Pod::Simple::PullParserStartToken>,
L<Pod::Simple::PullParserTextToken>, and
L<Pod::Simple::PullParserEndToken>.

L<Pod::Simple::PullParser> and L<Pod::Simple>

=head1 SUPPORT

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Pod::Simple is maintained by:

=over

=item * Allison Randal C<allison@perl.org>

=item * Hans Dieter Pearcey C<hdp@cpan.org>

=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

Found in path(s):
* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/lib/Pod/Simple/PullParserToken.pm
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=head1 NAME

Pod::Simple::Methody -- turn Pod::Simple events into method calls

=head1 SYNOPSIS

```
require 5;
use strict;
package SomePodFormatter;
use base qw(Pod::Simple::Methody);

sub handle_text {
  my($self, $text) = @_;
  ...
}

sub start_head1 {
  my($self, $attrs) = @_;
  ...
}
sub end_head1 {
  my($self) = @_;
  ...
}
```

...and start_/end_ methods for whatever other events you want to catch.

=head1 DESCRIPTION

This class is of
interest to people writing Pod formatters based on Pod::Simple.

This class (which is very small -- read the source) overrides
Pod::Simple's _handle_element_start, _handle_text, and
_handle_element_end methods so that parser events are turned into method
calls. (Otherwise, this is a subclass of L<Pod::Simple> and inherits all
its methods.)

You can use this class as the base class for a Pod formatter/processor.

=head1 METHOD CALLING

When Pod::Simple sees a "=head1 Hi there",
 for example, it basically does
this:

```
 $parser->_handle_element_start( "head1", \%attributes );
 $parser->_handle_text( "Hi there" );
 $parser->_handle_element_end( "head1" );
```

But if you subclass Pod::Simple::Methody, it will instead do this
when it sees a "=head1 Hi there":

```
 $parser->start_head1( \%attributes ) if $parser->can('start_head1');
 $parser->handle_text( "Hi there" )   if $parser->can('handle_text');
 $parser->end_head1()                 if $parser->can('end_head1');
```

If Pod::Simple sends an event where the element name has a dash,
period, or colon, the corresponding method name will have a underscore
in its place. For example, "foo.bar:baz" becomes start_foo_bar_baz
and end_foo_bar_baz.

See the source for Pod::Simple::Text for an example of using this class.

=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Subclassing>

=head1 SUPPORT

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L<https://github.com/perl-pod/pod-simple/>. Feel free to fork and contribute, or
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=item * David E. Wheeler C<dwheeler@cpan.org>

=back

=cut

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

---
abstract: 'framework for parsing Pod'
author:
 - 'Allison Randal <allison@perl.org>'
build_requires:

ExtUtils::MakeMaker: '0'
configure_requires:
ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.0401, CPAN::Meta::Converter version 2.150005'
license: perl
meta-spec:
url: http://module-build.sourceforge.net/META-spec-v1.4.html
version: '1.4'
name: Pod-Simple
no_index:
directory:
- t
- inc
recommends:
Encode: '2.78'
requires:
Carp: '0'
Config: '0'
Cwd: '0'
File::Basename: '0'
File::Find: '0'
File::Spec: '0'
Pod::Escapes: '1.04'
Symbol: '0'
Test: '1.25'
Test::More: '0'
Text::Wrap: '98.112902'
integer: '0'
overload: '0'
strict: '0'
resources:
bugtracker: https://github.com/perl-pod/pod-simple/issues
homepage: http://search.cpan.org/dist/Pod-Simple/
license: http://dev.perl.org/licenses/
repository: git://github.com/perl-pod/pod-simple.git
version:
'3.35'
x_serialization_backend: 'CPAN::Meta::YAML version 0.012'

Found in path(s):
* /perl-Pod-Simple-3.35-395.el8.src.rpm-cosi-expand-archive-dyJZxwBE/Pod-Simple-3.35.tar.gz-cosi-expand-archive-HgAXY2Rt/Pod-Simple-3.35/META.yml
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=head1 SEE ALSO

L<Pod::Simple>, L<Pod::Simple::Text>, L<Pod::Spell>

=head1 SUPPORT

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L<Linux man pages online|http://man.he.net/> site for man page links.

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=head1 AUTHOR

Pod::Simpele::XHTML was created by Allison Randal <allison@perl.org>.

Pod::Simple was created by Sean M. Burke <sburke@cpan.org>.
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Pod::Simple is maintained by:

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=head1 NAME

Pod::Simple::DumpAsXML -- turn Pod into XML

=head1 SYNOPSIS

```
 perl -MPod::Simple::DumpAsXML -e \
  "exit Pod::Simple::DumpAsXML->filter(shift)->any_errata_seen" \
  thingy.pod
```

=head1 DESCRIPTION

Pod::Simple::DumpAsXML is a subclass of L<Pod::Simple> that parses Pod
and turns it into indented and wrapped XML. This class is of
interest to people writing Pod formatters based on Pod::Simple.

Pod::Simple::DumpAsXML inherits methods from
L<Pod::Simple>.

=head1 SEE ALSO

L<Pod::Simple::XMLOutStream> is rather like this class.
Pod::Simple::XMLOutStream's output is space-padded in a way
that's better for sending to an XML processor (that is, it has
no ignorable whitespace). But
Pod::Simple::DumpAsXML's output is much more human-readable, being
(more-or-less) one token per line, with line-wrapping.

L<Pod::Simple::DumpAsText> is rather like this class,

except that it doesn't dump with XML syntax. Try them
 and see
which one you like best!

L<Pod::Simple>, L<Pod::Simple::DumpAsXML>

The older libraries L<Pod::PXML>, L<Pod::XML>, L<Pod::SAX>

=head1 SUPPORT

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1.83 perl-io-socket-ip 0.39-5.el8

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1.85 slf4j-log4j 1.7.5

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1.86 junit 4.11

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1.87 mail 1.4.2

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1.90 snake-yaml 1.12

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1.91 gunicorn 19.7.1

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gunicorn.logging_config

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doc/sitemap_gen.py

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util/unlink.py
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backport frop python3 Lib/test/support.py

gunicorn/selectors.py

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1.94 jbig-kit 2.1-14.el8

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1.96 kerberos 1.18

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lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
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uts/common/gssapi/include/mechglueP.h

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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
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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
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lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
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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
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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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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 =

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

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1.103 fribidi 1.0.4-8.el8

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1.107 libxext 1.3.4-1.el8

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1.108 libxi 1.7.10-1.el8

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1.109 gd 2.2.5-7.el8

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1.110 libcroco 0.6.12-4.el8_2.1

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1.111 libyaml 0.2.5

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

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* /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/AbstractClassGenerator.java
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 /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/Proxy.java
* /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/beans/BeanMap.java
* /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/reflect/MethodDelegate.java
* /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/reflect/FastClassEmitter.java
* /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/KeyFactory.java
* /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/core/DebuggingClassWriter.java
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* /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/UndeclaredThrowableException.java
* /cglib-2-2-0-b21-sources-1-jar/net/sf/cglib/proxy/MethodInterceptor.java
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1.117 libusb 1.0.23-4.el8

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1.118 tar 1.30-5.el8

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1.120 pcre 10.32-2.el8

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Written by: Philip Hazel
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1.121 libkcapi 1.2.0-2.el8

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* DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.125 libxkbcommon 0.9.1-1.el8

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1.126 kbd 2.0.4-10.el8

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1.128 python-setuptools 39.2.0-6.el8

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src/base/md5.c
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src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
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#
src/tools/apinames.c
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Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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

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(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
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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
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contains portions of the Library), rather than a "work that uses
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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
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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
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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
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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

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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
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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
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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
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1.136 libxcb 1.13.1-1.el8

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1.143 mpdecimal 2.5.0

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1.144 jcl-over-slf4j 1.7.30

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* /jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/Log.java
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* /jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/impl/NoOpLog.java
* /jcl-over-slf4j-1-7-30-sources-1-jar/org/apache/commons/logging/impl/SLF4JLocationAwareLog.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/DoubleConst.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Variable.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/Modifier.java
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/javassist-3-21-0-ga-sources-5-jar/javassist/CtMember.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Visitor.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/MultiType.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/runtime/Desc.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/MethodDecl.java

* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ConstantAttribute.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyFactory.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectInputStream.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/CtNewWrappedMethod.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/NewExpr.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/ClassPath.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/ProxyObjectOutputStream.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/NotFoundException.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformReadField.java
*
 /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/Javac.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/Metaobject.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/IntQueue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/Mnemonic.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/util/proxy/SecurityActions.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/rmi/Sample.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ByteArray.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/analysis/Type.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/ast/Pair.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/compiler/KeywordTable.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/stackmap/MapMaker.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/ClassFileWriter.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/ExprEditor.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/rmi/RemoteException.java
*
 /javassist-3-21-0-ga-sources-5-jar/javassist/convert/TransformBefore.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/CtClassType.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/expr/Expr.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/tools/reflect/ClassMetaobject.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/FloatMemberValue.java
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 /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ByteMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/AnnotationMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/LongMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/EnumMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/IntegerMemberValue.java
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* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/StringMemberValue.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/MemberValueVisitor.java
* /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/ArrayMemberValue.java
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 /javassist-3-21-0-ga-sources-5-jar/javassist/bytecode/annotation/CharMemberValue.java
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* /stax2-api-3-1-4-sources-jar/org/codehaus/stax2/typed/Base64Variants.java
* /stax2-api-3-1-4-sources-jar/org/codehaus/stax2/XMLStreamReader2.java
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* /stax2-api-3-1-4-sources-jar/org/codehaus/stax2/util/StreamWriterDelegate.java
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1.150 jakarta-ws-rs-api 2.1.5

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Source Code

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* https://github.com/eclipse-ee4j/jaxrs-api

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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
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 /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/util/ASMifierFieldVisitor.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/FieldVisitor.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/ClassReader.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/Edge.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/analysis/SourceValue.java

* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/Handler.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/VarInsnNode.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/commons/AnalyzerAdapter.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/ClassNode.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/commons/SimpleRemapper.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/tree/LineNumberNode.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/Type.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/xml/SAXClassAdapter.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
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* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /asm-all-repackaged-2-2-0-b21-sources-1-jar/org/objectweb/asm/xml/Processor.java
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1.155 hk2-utils 2.2.0-b21

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1.164 memstrack 0.1.11-1.el8

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1.165 commons-validator 1.3.1

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* /commons-validator-1-3-1-sources-1-jar/org/apache/commons/validator/routines/DateValidator.java
*
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* /commons-validator-1-3-1-sources-1-jar/org/apache/commons/validator/FormSetFactory.java
* /commons-validator-1-3-1-sources-1-jar/org/apache/commons/validator/DateValidator.java
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 /commons-validator-1-3-1-sources-1-jar/org/apache/commons/validator/EmailValidator.java
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* /commons-validator-1-3-1-sources-1-jar/org/apache/commons/validator/ISBNValidator.java
* /commons-validator-1-3-1-sources-1-jar/org/apache/commons/validator/routines/FloatValidator.java
* /commons-validator-1-3-1-sources-1-jar/org/apache/commons/validator/routines/ByteValidator.java
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1.166 visual-studio-runtime 14.00.24210.0

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1. Seti UI - A subtle dark colored UI theme for Atom. (https://github.com/jesseweed/seti-ui)

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1.170 snmp-4j 2.6.0

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```
/*_########################################################################
 _##
 _##  SNMP4J 2 - DefaultTcpTransportMapping.java
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Found in path(s):

*

/snmp4j-2-6-0-sources-1-jar/org/snmp4j/transport/DefaultTcpTransportMapping.java

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*

/snmp4j-2-6-0-sources-1-jar/org/snmp4j/transport/DefaultSshTransportMapping.java

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 _##  SNMP4J 2 - DefaultTimerFactory.java
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* /snmp4j-2-6-0-sources-1-jar/org/snmp4j/util/DefaultTimerFactory.java
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/*_############################################################################
 _##
 _##  SNMP4J 2 - AuthSHA2.java
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* /snmp4j-2-6-0-sources-1-jar/org/snmp4j/security/AuthSHA2.java
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 _##  SNMP4J 2 - SshSession.java
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* /snmp4j-2-6-0-sources-1-jar/org/snmp4j/transport/ssh/SshSession.java
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* /snmp4j-2-6-0-sources-1-jar/org/snmp4j/DefaultTimeoutModel.java
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*
 /snmp4j-2-6-0-sources-1-jar/org/snmp4j/util/DefaultThreadFactory.java
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* /snmp4j-2-6-0-sources-1-jar/org/snmp4j/mp/MPv2c.java
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 _##  SNMP4J 2 - RetrievalEvent.java
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 /snmp4j-2-6-0-sources-1-jar/org/snmp4j/transport/DefaultUdpTransportMapping.java

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 _##
 _##  SNMP4J 2 - EnumerationIterator.java
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 _##  SNMP4J 2 - AuthMD5.java
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 /snmp4j-2-6-0-sources-1-jar/org/snmp4j/security/nonstandard/PrivAES3DESKeyExtension.java
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* /snmp4j-2-6-0-sources-1-jar/org/snmp4j/version/VersionInfo.java
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 _##  SNMP4J 2 - AuthenticationProtocol.java
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 _##  SNMP4J 2 - SimpleMessageID.java
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/snmp4j-2-6-0-sources-1-jar/org/snmp4j/smi/ReadonlyVariableCallback.java

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1.171 mongo-java-driver 3.0.4

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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/annotations/ThreadSafe.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/annotations/NotThreadSafe.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/DefaultAuthenticator.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoNotPrimaryException.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoWriteException.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/Tag.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/TagSet.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/binding/AbstractReferenceCounted.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoNodeIsRecoveringException.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/CursorType.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoWriteConcernException.java
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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonBinarySubType.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/GetMoreProtocol.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/gridfs/GridFS.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonDateTime.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/DefaultClusterableServerFactory.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/DocumentCodecProvider.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/NoOpClusterListener.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/gridfs/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ServerId.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonDbPointer.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/BulkWriteHelper.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BSONException.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ServerVersion.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonMinKey.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/util/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/InternalStreamConnectionFactory.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ReplyMessage.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/WriteConcernException.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/NoOpFieldNameValidator.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/binding/WriteBinding.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DefaultDBCallback.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/ReadPreference.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/UpdateCommandMessage.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/netty/NettyByteBuf.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonDocumentWrapper.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/BsonStringCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/CommandWriteOperation.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonWriter.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoClientURI.java
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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonElement.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/CommandResultArrayCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/DeleteCommandProtocol.java
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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/BsonTimestampCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/LazyDBCallback.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/management/package-info.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/async/AsyncBatchCursor.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/MapReduceInlineResultsAsyncCursor.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/UpdateOperation.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/MapReduceBatchCursor.java
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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/util/ComputingMap.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DefaultDBEncoder.java
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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/io/BsonInput.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/types/Code.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonDocumentWriter.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/BsonMaxKeyCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/BsonJavaScriptWithScopeCodec.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoDatabaseImpl.java
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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/types/MaxKey.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/ServerAddress.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ClusterType.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/GSSAPIAuthenticator.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ServerSettings.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/configuration/ChildCodecRegistry.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/AsyncCompletionHandler.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/io/Bits.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ProtocolExecutor.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/GroupCommand.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/MaxKeyCodec.java

* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/Encoder.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/FindIterable.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoTimeoutException.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/BsonArrayCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/json/JsonWriterSettings.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/ByteBufNIO.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoURI.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/QueryMessage.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ResponseBuffers.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/UpdateCommandProtocol.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/LazyBSONList.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DBDecoder.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/QueryResultCallback.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoServerException.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/binding/AsyncReadBinding.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/event/ClusterDescriptionChangedEvent.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/BaseCluster.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/RemoveRequest.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/ByteArrayCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/diagnostics/logging/Logger.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/SocketStreamHelper.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/QueryOperators.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BSONEncoder.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/RenameCollectionOperation.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonNumber.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonObjectId.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonWriterSettings.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/CodeWithScopeCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/ConnectionString.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/Function.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/FindOptions.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/selector/PrimaryServerSelector.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/netty/NettyStreamFactory.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/AcknowledgedBulkWriteResult.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DBCallbackFactory.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/MongoCollection.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/InsertOptions.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/configuration/LazyCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/Protocol.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/AggregateToCollectionOperation.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/AbstractReferenceCounted.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/types/StringRangeSet.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/ParallelCollectionScanOperation.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ConnectionId.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/MapReduceHelper.java

* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/SendMessageCallback.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/io/OutputBuffer.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/ExplainVerbosity.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoCursorAdapter.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/UpdateManyModel.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/SocketSettings.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonReader.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/UpdateRequest.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonType.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/binding/AsyncWriteBinding.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/configuration/CodecProvider.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/ExplainHelper.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/EncoderContext.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/MongoDatabase.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/bulk/BulkWriteError.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/StreamFactory.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DBAddress.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/gridfs/CLI.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/AggregationOutput.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/InternalConnectionFactory.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/SocketStreamFactory.java
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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/configuration/Optional.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/ReturnDocument.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/io/package-info.java
*

/mongo-java-driver-3-0-4-sources-2-jar/org/bson/conversions/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/BsonArrayWriter.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/netty/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/async/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/event/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/MapReduceIterable.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/BsonValueCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/configuration/CodecCache.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/assertions/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/configuration/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/DistinctIterable.java
*
/mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/AggregateIterable.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/configuration/MapOfCodecsProvider.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/BsonArrayWrapper.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/types/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DistinctIterableImpl.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/configuration/CodecRegistries.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/result/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/AggregateIterableImpl.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/assertions/package-info.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MapReduceIterableImpl.java
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*/
// make a special exception for a command with only a single item added to it.  It's allowed to exceed maximum
document size so that
```

Found in path(s):
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/BaseWriteCommandMessage.java

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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/selector/ReadPreferenceServerSelector.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/DescriptionHelper.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DB.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DBObjectCodec.java
*
/mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/ValueCodecProvider.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DBCollectionObjectFactory.java
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```

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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/assertions/Assertions.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/assertions/Assertions.java

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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/InternalStreamConnection.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/AsyncConnection.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/Connection.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/Filters.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/Projections.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/Sorts.java
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* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/UuidCodecHelper.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/UuidRepresentation.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/DeleteOneModel.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/org/bson/BsonUndefined.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/BsonUndefinedCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/UuidCodecProvider.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/CountOptions.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/ExponentiallyWeightedMovingAverage.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/WriteError.java
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*/
/*
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* Expert Group and released to the public domain, as explained at
* http://creativecommons.org/publicdomain/zero/1.0/
*/
/**
    * Returns an array containing all of the elements in this deque, in
    * proper sequence (from first to last element).

    *
    * <p>The returned array will be "safe" in that no references to it are
    * maintained by this deque.  (In other words, this method must allocate
    * a new array).  The caller is thus free to modify the returned array.
    *
    * <p>This method acts as bridge between array-based and collection-based
    * APIs.
    *
    * @return an array containing all of the elements in this deque
    */
```

Found in path(s):
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/internal/connection/ConcurrentLinkedDeque.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/ListCollectionsIterable.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/AtomicLongCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/AtomicBooleanCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/ListIndexesIterableImpl.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/ListIndexesIterable.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/ListDatabasesIterableImpl.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/conversions/Bson.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/operation/IndexHelper.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/ListDatabasesIterable.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/ListCollectionsIterableImpl.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/bulk/IndexRequest.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/internal/connection/SslHelper.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/AtomicIntegerCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/org/bson/codecs/CharacterCodec.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/IndexModel.java
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* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/DBCollection.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/connection/DefaultConnectionPool.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/FindOneAndUpdateOptions.java
*
 /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/client/model/FindOneAndDeleteOptions.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/MongoCollectionImpl.java
* /mongo-java-driver-3-0-4-sources-2-jar/com/mongodb/ErrorCategory.java

1.172 libtasn 4.13-3.el8

1.172.1 Available under license :

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1.176 selinux 2.9-1.el8

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1.177 ncclient 0.6.6

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1.178 libgd 2.2.5-7.el8

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1.179 hvac 0.2.17

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1.180 urllib3 1.25.11

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 * Code review, PEP8 compliance, benchmark fix

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 * Bugfixes, suggestions, Requests integration

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 * Bugfixes, Improvements and Test
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 * Bugfixes in testsuite

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 * Fixed pickle support of some exceptions

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 * Allowed to skip SSL hostname verification

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 <https://lukasa.co.uk/about/>
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 * Return native strings in header values.
 * Generate 'Host' header when using proxies.

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

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* 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@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]

1.181 urllib3 1.22

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* 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()``.
 * Bugfix for ``ConnectionPool.urlopen(release_conn=False)``.
 * Creation of ``HTTPConnectionPool.ResponseCls``.

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

* Adam Talsma <https://github.com/a-tal>
 * Bugfix to ca_cert file paths.

* Evan Meagher <https://evanmeagher.net>
 * Bugfix related to `memoryview` usage in PyOpenSSL adapter

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

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

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

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

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

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

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

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

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

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

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

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

* Tom White <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

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

1.182 python-pip 9.0.3

1.182.1 Available under license :

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1.183 python-requests 2.22.0

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1.184 python-requests 2.18.4

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1.185 pexpect 4.8.0

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1.186 flask 0.12.2

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1.187 libxslt 1.1.32-6.el8

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1.188 pytz 2017.2

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1.189 itsdangerous 2.0.1

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1.190 systemd-shim 219-78.el7

1.190.1 Available under license :

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From 1b83fbe90a241c6d5c4ab0dc8a3f97215fb277bf Mon Sep 17 00:00:00 2001
From: Lukas Nykryn <lnykryn@redhat.com>
Date: Wed, 19 Nov 2014 12:14:00 +0100
Subject: [PATCH] Revert "remove references of readahead"

This reverts commit 3b71c18d3e3906f8606c66bea98b327684394e61.

.gitignore | 1 +
README | 1 +
TODO | 7 +++++++
3 files changed, 9 insertions(+)

diff --git a/.gitignore b/.gitignore
index e8a4085a3a..0360f7c6bd 100644
--- a/.gitignore
+++ b/.gitignore
@@ -107,6 +107,7 @@
/systemd-quotacheck
/systemd-random-seed
/systemd-rc-local-generator
+/systemd-readahead
/systemd-remount-api-vfs
/systemd-remount-fs
/systemd-reply-password
diff --git a/README b/README
index 5f5783a684..287d05c9b4 100644
--- a/README
+++ b/README
@@ -30,6 +30,7 @@ AUTHOR:

LICENSE:
        LGPLv2.1+ for all code
+   - except sd-readahead.[ch] which is MIT
        - except src/shared/MurmurHash2.c which is Public Domain
        - except src/shared/siphash24.c which is CC0 Public Domain
        - except src/journal/lookup3.c which is Public Domain
diff --git a/TODO b/TODO
index 255a4f2d07..90b2c4b30a 100644
--- a/TODO
+++ b/TODO
@@ -786,6 +786,13 @@ Features:

* and a dbus call to generate target from current state

+* readahead:
+ - drop /.readahead on bigger upgrades with yum
+ - move readahead files into /var (look for them with .path units?)
+ - readahead: use BTRFS_IOC_DEFRAG_RANGE instead of BTRFS_IOC_DEFRAG ioctl, with START_IO
+ - readahead: when bumping /sys readahead variable save mtime and compare later to detect changes
+ - readahead: make use of EXT4_IOC_MOVE_EXT, as used by http://e4rat.sourceforge.net/
+
* GC unreferenced jobs (such as .device jobs)

* write blog stories about:

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0008-Revert-remove-references-of-readahead.patch
No license file was found, but licenses were detected in source scan.

From 825d40b7ccdde8b4b9a5299d6e6747c80b9519e2 Mon Sep 17 00:00:00 2001
From: Chris Morgan <chmorgan@gmail.com>
Date: Sat, 21 Mar 2015 20:47:46 -0400
Subject: [PATCH] man: add journal-remote.conf(5)

(cherry picked from commit eaa5251d9167027275d8275862e23e0b7dc8866e)

Cherry-picked from: 90d2614
Resolves: #1222517

Makefile-man.am | 7 ++
man/journal-remote.conf.xml | 114 ++
man/systemd-journal-remote.xml | 1 +
3 files changed, 122 insertions(+)
create mode 100644 man/journal-remote.conf.xml

diff --git a/Makefile-man.am b/Makefile-man.am
index ac6f69af70..084df754a2 100644
--- a/Makefile-man.am
+++ b/Makefile-man.am
@@ -1358,14 +1358,20 @@ endif

if HAVE_MICROHTTPD
MANPAGES += \
+ man/journal-remote.conf.5 \
 man/systemd-journal-gatewayd.service.8 \
 man/systemd-journal-remote.8 \
 man/systemd-journal-upload.8
MANPAGES_ALIAS += \
+ man/journal-remote.conf.d.5

```
 \
 man/systemd-journal-gatewayd.8 \
 man/systemd-journal-gatewayd.socket.8
+man/journal-remote.conf.d.5: man/journal-remote.conf.5
man/systemd-journal-gatewayd.8: man/systemd-journal-gatewayd.service.8
man/systemd-journal-gatewayd.socket.8: man/systemd-journal-gatewayd.service.8
+man/journal-remote.conf.d.html: man/journal-remote.conf.html
+ $(html-alias)
+
man/systemd-journal-gatewayd.html: man/systemd-journal-gatewayd.service.html
 $(html-alias)

@@ -1662,6 +1668,7 @@ EXTRA_DIST += \
 man/hostname.xml \
 man/hostnamectl.xml \
 man/hwdb.xml \
+ man/journal-remote.conf.xml \
 man/journalctl.xml \
 man/journald.conf.xml \
 man/kernel-command-line.xml \
diff --git a/man/journal-remote.conf.xml b/man/journal-remote.conf.xml
new file mode 100644
index 0000000000..a7b2227182
--- /dev/null
+++ b/man/journal-remote.conf.xml
@@ -0,0 +1,114 @@
+<?xml version='1.0'?> <!--*-nxml-*-->
+<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook XML V4.2//EN"
+  "http://www.oasis-open.org/docbook/xml/4.2/docbookx.dtd">
+
+<!--
+
  This file is part of systemd.
+
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```

```
+-->
+
+<refentry id="journal-remote.conf" conditional='HAVE_MICROHTTPD'
+         xmlns:xi="http://www.w3.org/2001/XInclude">
+  <refentryinfo>
+    <title>journal-remote.conf</title>
+    <productname>systemd</productname>
+
+    <authorgroup>
+
     <author>
+       <contrib>Developer</contrib>
+       <firstname>Chris</firstname>
+       <surname>Morgan</surname>
+       <email>chmorgan@gmail.com</email>
+     </author>
+    </authorgroup>
+  </refentryinfo>
+
+  <refmeta>
+    <refentrytitle>journal-remote.conf</refentrytitle>
+    <manvolnum>5</manvolnum>
+  </refmeta>
+
+  <refnamediv>
+    <refname>journal-remote.conf</refname>
+    <refname>journal-remote.conf.d</refname>
+    <refpurpose>Journal remote service configuration files</refpurpose>
+  </refnamediv>
+
+  <refsynopsisdiv>
+    <para><filename>/etc/systemd/journal-remote.conf</filename></para>
+    <para><filename>/etc/systemd/journald.conf.d/*.conf</filename></para>
+    <para><filename>/run/systemd/journald.conf.d/*.conf</filename></para>
+    <para><filename>/usr/lib/systemd/journald.conf.d/*.conf</filename></para>
+  </refsynopsisdiv>
+
+  <refsect1>
+    <title>Description</title>
+
+    <para>These files configure various parameters of the systemd-remote-journal
+
    application,
+    <citerefentry><refentrytitle>systemd-journal-
remote</refentrytitle><manvolnum>8</manvolnum></citerefentry>.</para>
+  </refsect1>
+
+  <xi:include href="standard-conf.xml" xpointer="main-conf" />
```

```
+
+ <refsect1>
+   <title>Options</title>
+
+   <para>All options are configured in the
+   <literal>[Remote]</literal> section:</para>
+
+   <variablelist>
+
+     <varlistentry>
+       <term><varname>SplitMode=</varname></term>
+
+       <listitem><para>One of <literal>host</literal> or <literal>none</literal>.
+       </para></listitem>
+     </varlistentry>
+
+     <varlistentry>
+       <term><varname>ServerKeyFile=</varname></term>
+
+       <listitem><para>SSL key in PEM format</para></listitem>
+     </varlistentry>
+
+     <varlistentry>
+       <term><varname>ServerCertificateFile=</varname></term>
+
+       <listitem><para>SSL CA certificate in PEM format.</para></listitem>
+     </varlistentry>
+
+     <varlistentry>
+
      <term><varname>TrustedCertificateFile=</varname></term>
+
+       <listitem><para>SSL CA certificate.</para></listitem>
+     </varlistentry>
+
+   </variablelist>
+
+ </refsect1>
+
+ <refsect1>
+     <title>See Also</title>
+     <para>
+       <citerefentry><refentrytitle>systemd-journal-
remote</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+       <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+       <citerefentry><refentrytitle>systemd-
journald.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+     </para>
```

```
+  </refsect1>
+
+</refentry>
diff --git a/man/systemd-journal-remote.xml b/man/systemd-journal-remote.xml
index 2687662a14..d5bda635c4 100644
--- a/man/systemd-journal-remote.xml
+++ b/man/systemd-journal-remote.xml
@@ -310,6 +310,7 @@ systemd-journal-remote --url http://some.host:19531/
     <citerefentry><refentrytitle>journalctl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd-
journald.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-journal-
gatewayd.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+     <citerefentry><refentrytitle>journal-remote.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>
   </para>
  </refsect1>
</refentry>
```

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0152-man-add-journal-remote.conf-5.patch
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```
From a0def1365a2c50f7e1d4ec14c104bfe5cbd8bf8a Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Zbigniew=20J=C4=99drzejewski-Szmek?= <zbyszek@in.waw.pl>
Date: Fri, 13 Mar 2015 21:22:39 -0500
Subject: [PATCH] man: fix a bunch of links

All hail linkchecker!

(cherry picked from commit 3ba3a79df4ae094d1008c04a9af8d1ff970124c4)

Conflicts:
 man/systemd-efi-boot-generator.xml
---
man/busctl.xml                      |  4 +--
man/crypttab.xml                    | 20 +++++++-------
man/file-hierarchy.xml              |  2 +-
man/kernel-command-line.xml         |  2 +-
man/locale.conf.xml                 |  8 +++---
man/localectl.xml                   |  8 +++---
man/logind.conf.xml                 |  2 +-
man/machine-id.xml                  |  4 +--
man/modules-load.d.xml              |  2 +-
man/os-release.xml                  |  2 +-
man/sd_bus_message_append.xml
          |  2 +-
man/sd_bus_open_user.xml            |  2 +-
```

```
man/sd_event_add_signal.xml              |  4 +--
man/sd_journal_get_catalog.xml           |  2 +-
man/sd_journal_get_cursor.xml            |  2 +-
man/sd_journal_print.xml                 | 14 +++++-----
man/sysctl.d.xml                         |  8 +++---
man/systemctl.xml                        |  6 ++--
man/systemd-activate.xml                 |  2 +-
man/systemd-analyze.xml                  |  4 +--
man/systemd-cat.xml                      |  2 +-
man/systemd-cryptsetup-generator.xml     |  2 +-
man/systemd-cryptsetup@.service.xml      |  2 +-
man/systemd-efi-boot-generator.xml       |  4 +--
man/systemd-firstboot.xml                | 14 +++++-----
man/systemd-fstab-generator.xml          |  4 +--
man/systemd-gpt-auto-generator.xml       |  8 +++---
man/systemd-hibernate-resume-generator.xml |  2 +-
man/systemd-journald.service.xml         |  2 +-
 man/systemd-localed.service.xml         |  8 +++---
man/systemd-nspawn.xml                   |  4 +--
man/systemd-quotacheck.service.xml       |  2 +-
man/systemd-remount-fs.service.xml       |  6 ++--
man/systemd-socket-proxyd.xml            |  8 +++---
man/systemd-sysctl.service.xml           |  8 +++---
man/systemd-system.conf.xml              |  2 +-
man/systemd-update-utmp.service.xml      |  2 +-
man/systemd-vconsole-setup.service.xml   |  8 +++---
man/systemd.automount.xml                |  6 ++--
man/systemd.exec.xml                     | 16 ++++++------
man/systemd.generator.xml                |  2 +-
man/systemd.journal-fields.xml           |  2 +-
man/systemd.kill.xml                     |  4 +--
man/systemd.mount.xml                    | 14 +++++-----
man/systemd.network.xml                  |  8 +++---
man/systemd.path.xml                     |  4 +--
man/systemd.socket.xml                   | 32 ++++++++++-----------
 man/systemd.swap.xml                    | 10 +++++----
man/systemd.unit.xml                     |  4 +--
man/systemd.xml                          |  6 ++--
man/vconsole.conf.xml                    |  6 ++--
51 files changed, 151 insertions(+), 151 deletions(-)

diff --git a/man/busctl.xml b/man/busctl.xml
index 251233bb96..cc1844b0a0 100644
--- a/man/busctl.xml
+++ b/man/busctl.xml
@@ -288,7 +288,7 @@
       url="http://wiki.wireshark.org/Development/LibpcapFileFormat">Libpcap
       File Format</ulink> description. Make sure to redirect the
```

```
       output to STDOUT to a file. Tools like
-       <citerefentry><refentrytitle>wireshark</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>wireshark</refentrytitle><manvolnum>1</manvolnum></citerefentry>
       may be used to dissect and view the generated
       files.</para></listitem>
     </varlistentry>
@@ -472,7 +472,7 @@ o "/org/freedesktop/systemd1/job/42684"</programlisting>
      <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd-bus-proxyd</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>machinectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>wireshark</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+     <citerefentry project='die-
net'><refentrytitle>wireshark</refentrytitle><manvolnum>1</manvolnum></citerefentry>
    </para>
  </refsect1>
</refentry>
diff --git a/man/crypttab.xml b/man/crypttab.xml
index aeacc57973..3e249ad23e 100644
--- a/man/crypttab.xml
+++ b/man/crypttab.xml
@@ -75,7 +75,7 @@

    <para>Setting up encrypted block devices using this file supports
    three encryption modes: LUKS, TrueCrypt and plain. See
-    <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+    <citerefentry
 project='die-net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    for more information about each mode. When no mode is specified in
    the options field and the block device contains a LUKS signature,
    it is opened as a LUKS device; otherwise, it is assumed to be in
@@ -117,7 +117,7 @@
       <term><option>cipher=</option></term>

       <listitem><para>Specifies the cipher to use. See
-       <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
       for possible values and the default value of this option. A
       cipher with unpredictable IV values, such as
       <literal>aes-cbc-essiv:sha256</literal>, is
@@ -129,7 +129,7 @@

       <listitem><para>Specifies the hash to use for password
       hashing. See
-       <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+
```

```
        <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
        for possible values and the default value of this
        option.</para></listitem>
      </varlistentry>
@@ -140,7 +140,7 @@
        <listitem><para>Use a detached (separated) metadata device or
        file where the LUKS header is stored. This option is only
        relevant for LUKS devices. See
-       <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
        for possible values and the default value of this
        option.</para></listitem>
      </varlistentry>
@@ -150,7 +150,7 @@

        <listitem><para>Specifies the number of bytes to skip at the
        start of the key file. See
-       <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+
        <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
        for possible values and the default value of this
        option.</para></listitem>
      </varlistentry>
@@ -160,7 +160,7 @@

        <listitem><para>Specifies the maximum number of bytes to read
        from the key file. See
-       <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
        for possible values and the default value of this option. This
        option is ignored in plain encryption mode, as the key file
        size is then given by the key size.</para></listitem>
@@ -174,7 +174,7 @@
        given passphrase or key, but another would, the setup of the
        device will fail regardless. This option
 implies
        <option>luks</option>. See
-       <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
        for possible values. The default is to try all key slots in
        sequential order.</para></listitem>
      </varlistentry>
@@ -221,7 +221,7 @@
```

```
       <term><option>size=</option></term>

       <listitem><para>Specifies the key size in bits. See
-       <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
       for possible values and the default value of this
       option.</para></listitem>
     </varlistentry>
@@ -278,7 +278,7 @@
       volume provided in the second field. Please note that there is
       no protection for the
  hidden volume if the outer volume is
       mounted instead. See
-       <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
       for more information on this limitation.</para></listitem>
     </varlistentry>

@@ -383,7 +383,7 @@ hidden     /mnt/tc_hidden  /dev/null    tcrypt-hidden,tcrypt-keyfile=/etc/keyfil
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-
cryptsetup@.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-cryptsetup-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+     <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
      <citerefentry project='man-
pages'><refentrytitle>mkswap</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry project='man-
pages'><refentrytitle>mke2fs</refentrytitle><manvolnum>8</manvolnum></citerefentry>
   </para>
diff --git a/man/file-hierarchy.xml b/man/file-hierarchy.xml
index e9c894f5c8..364e130790 100644
--- a/man/file-hierarchy.xml
+++ b/man/file-hierarchy.xml
@@ -397,7 +397,7 @@
       <term><filename>/dev/shm</filename></term>
       <listitem><para>Place for POSIX shared memory segments, as
       created via
-       <citerefentry><refentrytitle>shm_open</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
+       <citerefentry project='die-
net'><refentrytitle>shm_open</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
       This directory is flushed on boot, and is a
       <literal>tmpfs</literal> file system. Since all users have
       write access to this directory,
```

```
 special care should be taken
diff --git a/man/kernel-command-line.xml b/man/kernel-command-line.xml
index 3741cf9cc2..919bd13745 100644
--- a/man/kernel-command-line.xml
+++ b/man/kernel-command-line.xml
@@ -336,7 +336,7 @@
         <listitem>
           <para>Enables resume from hibernation using the specified
           device. All
-          <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>-like
+          <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>-like
           paths are supported. For details, see
           <citerefentry><refentrytitle>systemd-hibernate-resume-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>.</para>
         </listitem>
diff --git a/man/locale.conf.xml b/man/locale.conf.xml
index 48c0006db2..2c32d16094 100644
--- a/man/locale.conf.xml
+++ b/man/locale.conf.xml
@@ -91,7 +91,7 @@
     might be checked for locale configuration as well, however
  only as
     fallback.</para>

-    <para><citerefentry><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+    <para><citerefentry project='man-
pages'><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
     may be used to alter the settings in this file during runtime from
     the command line. Use
     <citerefentry><refentrytitle>systemd-firstboot</refentrytitle><manvolnum>1</manvolnum></citerefentry>
@@ -121,7 +121,7 @@
     Note that <varname>LC_ALL</varname> may not be configured in this
     file. For details about the meaning and semantics of these
     settings, refer to
-    <citerefentry><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>.</para>
+    <citerefentry project='man-
pages'><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>.</para>
   </refsect1>

   <refsect1>
@@ -142,8 +142,8 @@ LC_MESSAGES=en_US.UTF-8</programlisting>
       <title>See Also</title>
       <para>
         <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+        <citerefentry project='man-
```

```
pages'><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
+       <citerefentry project='man-
pages'><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
        <citerefentry><refentrytitle>systemd-
localed.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
        <citerefentry><refentrytitle>systemd-firstboot</refentrytitle><manvolnum>1</manvolnum></citerefentry>
      </para>
diff --git a/man/localectl.xml b/man/localectl.xml
index aae6e0629c..7def047f62 100644
--- a/man/localectl.xml
+++ b/man/localectl.xml
@@ -124,7 +124,7 @@
        <listitem><para>Set the
 system locale. This takes one or more
        assignments such as "LANG=de_DE.utf8",
        "LC_MESSAGES=en_GB.utf8", and so on. See
-       <citerefentry><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        for details on the available settings and their meanings. Use
        <command>list-locales</command> for a list of available
        locales (see below). </para></listitem>
@@ -204,10 +204,10 @@
    <title>See Also</title>
    <para>
      <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+     <citerefentry project='man-
pages'><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
+
      <citerefentry project='man-
pages'><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>vconsole.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+     <citerefentry
project='mankier'><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>kbd</refentrytitle><manvolnum>4</manvolnum></citerefentry>,
      <ulink url="http://www.x.org/releases/current/doc/xorg-docs/input/XKB-Config.html">
       The XKB Configuration Guide
diff --git a/man/logind.conf.xml b/man/logind.conf.xml
index ca2b18783c..d02d573565 100644
--- a/man/logind.conf.xml
+++ b/man/logind.conf.xml
@@ -126,7 +126,7 @@

        <para>Note that setting <varname>KillUserProcesses=1</varname>
        will break tools like
```

-
<citerefentry><refentrytitle>screen</refentrytitle><manvolnum>1</manvolnum></citerefentry>.</para></listitem>
+
       <citerefentry project='die-
net'><refentrytitle>screen</refentrytitle><manvolnum>1</manvolnum></citerefentry>.</para></listitem>
     </varlistentry>

     <varlistentry>
diff --git a/man/machine-id.xml b/man/machine-id.xml
index 83e0b26ced..92d67a3869 100644
--- a/man/machine-id.xml
+++ b/man/machine-id.xml
@@ -75,7 +75,7 @@
   globally unique ID in the network, which does not change even if
   the local network configuration changes. Due to this and its
   greater length, it is a more useful replacement for the
-   <citerefentry><refentrytitle>gethostid</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>gethostid</refentrytitle><manvolnum>3</manvolnum></citerefentry>
   call that POSIX specifies.</para>

   <para>The
@@ -127,7 +127,7 @@ id[8] = (id[8] & 0x3F) | 0x80;</programlisting>
     <para>
       <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd-machine-id-
setup</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>gethostid</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
+   <citerefentry project='man-
pages'><refentrytitle>gethostid</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>hostname</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>machine-info</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>os-release</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
diff --git a/man/modules-load.d.xml b/man/modules-load.d.xml
index 34a937db68..4b722aa128 100644
--- a/man/modules-load.d.xml
+++ b/man/modules-load.d.xml
@@ -94,7 +94,7 @@ virtio-net</programlisting>
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-modules-
load.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-delta</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-    <citerefentry><refentrytitle>modprobe</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>modprobe</refentrytitle><manvolnum>8</manvolnum></citerefentry>
   </para>
 </refsect1>

```
diff --git a/man/os-release.xml b/man/os-release.xml
index 1b71a49d05..8f4ab10fed 100644
--- a/man/os-release.xml
+++ b/man/os-release.xml
@@ -316,7 +316,7 @@ BUG_REPORT_URL="https://bugzilla.redhat.com/"</programlisting>
     <title>See Also</title>
     <para>
       <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>lsb_release</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+
       <citerefentry project='die-
net'><refentrytitle>lsb_release</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>hostname</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>machine-id</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>machine-info</refentrytitle><manvolnum>5</manvolnum></citerefentry>
diff --git a/man/sd_bus_message_append.xml b/man/sd_bus_message_append.xml
index 0c49a0c7c9..11fa07c636 100644
--- a/man/sd_bus_message_append.xml
+++ b/man/sd_bus_message_append.xml
@@ -245,7 +245,7 @@ sd_bus_message_append(m, "ynqiuxtd", y, n, q, i, u, x, t, d);</programlisting>
     <citerefentry><refentrytitle>sd_bus_new</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>sd_bus_ref</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>sd_bus_unref</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
-
     <citerefentry><refentrytitle>ssh</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+      <citerefentry project='die-net'><refentrytitle>ssh</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-
machined.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>machinectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   </para>
diff --git a/man/sd_bus_open_user.xml b/man/sd_bus_open_user.xml
index e7a765962a..2bbb010696 100644
--- a/man/sd_bus_open_user.xml
+++ b/man/sd_bus_open_user.xml
@@ -208,7 +208,7 @@ along with systemd; If not, see <http://www.gnu.org/licenses/>.
     <citerefentry><refentrytitle>sd_bus_new</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>sd_bus_ref</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>sd_bus_unref</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
-
     <citerefentry><refentrytitle>ssh</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+      <citerefentry project='die-net'><refentrytitle>ssh</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-
machined.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>machinectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   </para>
diff --git a/man/sd_event_add_signal.xml b/man/sd_event_add_signal.xml
index 0299aa5a53..7c8df7df8d 100644
--- a/man/sd_event_add_signal.xml
```

```
+++ b/man/sd_event_add_signal.xml
@@ -86,7 +86,7 @@ along with systemd; If not, see <http://www.gnu.org/licenses/>.
    the <parameter>source</parameter> parameter. The
    <parameter>signal</parameter> parameter specifies the signal to be handled
    (see
-    <citerefentry><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>).
+    <citerefentry project='man-
pages'><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>).
     The <parameter>handler</parameter> must reference a function to
    call when the signal is delivered or be <constant>NULL</constant>.
    The handler function will be passed the
@@ -94,7 +94,7 @@ along with systemd; If not, see <http://www.gnu.org/licenses/>.
    freely by the caller. The handler also receives a pointer to a
    <structname>const struct signalfd_siginfo</structname> containing
    the information about the received signal. See
-    <citerefentry><refentrytitle>signalfd</refentrytitle><manvolnum>2</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>signalfd</refentrytitle><manvolnum>2</manvolnum></citerefentry>
    for further information.</para>

    <para>Only a single handler may be installed for a specific
diff --git a/man/sd_journal_get_catalog.xml b/man/sd_journal_get_catalog.xml
index 1dcbadd186..c19eb11b20 100644
--- a/man/sd_journal_get_catalog.xml
+++
 b/man/sd_journal_get_catalog.xml
@@ -130,7 +130,7 @@
      <citerefentry><refentrytitle>sd_journal_open</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>sd_journal_next</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>sd_journal_get_data</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+      <citerefentry project='man-
pages'><refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum></citerefentry>
    </para>
  </refsect1>

diff --git a/man/sd_journal_get_cursor.xml b/man/sd_journal_get_cursor.xml
index 2b7f443f29..a400d8b1b5 100644
--- a/man/sd_journal_get_cursor.xml
+++ b/man/sd_journal_get_cursor.xml
@@ -84,7 +84,7 @@
    time) available entry. The call takes two arguments: a journal
    context object and a pointer to a string pointer where the cursor
    string
 will be placed. The string is allocated via libc
-    <citerefentry><refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>malloc</refentrytitle><manvolnum>3</manvolnum></citerefentry>
```

```
   and should be freed after use with
   <citerefentry project='man-
pages'><refentrytitle>free</refentrytitle><manvolnum>3</manvolnum></citerefentry>.</para>

diff --git a/man/sd_journal_print.xml b/man/sd_journal_print.xml
index 068b10e7ca..0cd0b45b9a 100644
--- a/man/sd_journal_print.xml
+++ b/man/sd_journal_print.xml
@@ -119,7 +119,7 @@
   <function>sd_journal_print()</function> but takes a variable
   argument list encapsulated in an object of type
   <varname>va_list</varname> (see
-   <citerefentry><refentrytitle>stdarg</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>stdarg</refentrytitle><manvolnum>3</manvolnum></citerefentry>
   for more information)
  instead of the format string. It is
   otherwise equivalent in behavior.</para>

@@ -145,7 +145,7 @@
   <function>sd_journal_send()</function> but takes an array of
   <varname>struct iovec</varname> (as defined in
   <filename>uio.h</filename>, see
-   <citerefentry><refentrytitle>readv</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>readv</refentrytitle><manvolnum>3</manvolnum></citerefentry>
   for details) instead of the format string. Each structure should
   reference one field of the entry to submit. The second argument
   specifies the number of structures in the array.
@@ -154,7 +154,7 @@
   necessary.</para>

   <para><function>sd_journal_perror()</function> is a similar to
-   <citerefentry><refentrytitle>perror</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+   <citerefentry project='die-
net'><refentrytitle>perror</refentrytitle><manvolnum>3</manvolnum></citerefentry>
   and
  writes a message to the journal that consists of the passed
   string, suffixed with ": " and a human readable representation of
   the current error code stored in
@@ -219,7 +219,7 @@ sd_journal_send("MESSAGE=Hello World, this is PID %lu!", (unsigned long) getpid(
   <title>Async signal safety</title>
   <para><function>sd_journal_sendv()</function> is "async signal
   safe" in the meaning of
-   <citerefentry><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>.
+   <citerefentry project='man-
pages'><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>.
   </para>
```

```
   <para><function>sd_journal_print</function>,
@@ -249,11 +249,11 @@ sd_journal_send("MESSAGE=Hello World, this is PID %lu!", (unsigned long) getpid(
     <citerefentry><refentrytitle>sd-journal</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>sd_journal_stream_fd</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
      <citerefentry project='man-
pages'><refentrytitle>syslog</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>perror</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
+     <citerefentry project='die-
net'><refentrytitle>perror</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry project='man-
pages'><refentrytitle>errno</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd.journal-
fields</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+     <citerefentry project='man-
pages'><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
+     <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
    </para>
  </refsect1>

diff --git a/man/sysctl.d.xml b/man/sysctl.d.xml
index 5a35cfe2c8..8a131791a5 100644
--- a/man/sysctl.d.xml
+++ b/man/sysctl.d.xml
@@ -57,7 +57,7 @@
   <para>At boot,
   <citerefentry><refentrytitle>systemd-sysctl.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>
   reads configuration files from the above directories to configure
-   <citerefentry><refentrytitle>sysctl</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>sysctl</refentrytitle><manvolnum>8</manvolnum></citerefentry>
   kernel parameters.</para>
  </refsect1>

@@ -162,9 +162,9 @@ net.bridge.bridge-nf-call-arptables = 0
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-
sysctl.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-delta</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-
     <citerefentry><refentrytitle>sysctl</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>sysctl.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>modprobe</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+     <citerefentry project='man-
pages'><refentrytitle>sysctl</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
```

```
+      <citerefentry project='man-
pages'><refentrytitle>sysctl.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+      <citerefentry project='man-
pages'><refentrytitle>modprobe</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    </para>
  </refsect1>

diff --git a/man/systemctl.xml b/man/systemctl.xml
index 6f30474c39..07eb43165e 100644
--- a/man/systemctl.xml
+++ b/man/systemctl.xml
@@ -1703,9 +1703,9 @@ kobject-uevent 1 systemd-udevd-kernel.socket systemd-udevd.service
         <varname>$VISUAL</varname> are present
  or if it is set to an empty
         string or if their execution failed, systemctl will try to execute well
         known editors in this order:
-        <citerefentry><refentrytitle>nano</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>vim</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>vi</refentrytitle><manvolnum>1</manvolnum></citerefentry>.
+        <citerefentry project='die-
net'><refentrytitle>nano</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+        <citerefentry project='die-
net'><refentrytitle>vim</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+        <citerefentry project='die-net'><refentrytitle>vi</refentrytitle><manvolnum>1</manvolnum></citerefentry>.
         </para></listitem>
       </varlistentry>
     </variablelist>
diff --git a/man/systemd-activate.xml b/man/systemd-activate.xml
index e64894a28b..cb68a79be7 100644
--- a/man/systemd-activate.xml
+++ b/man/systemd-activate.xml
@@
 -165,7 +165,7 @@
       <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd.socket</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd.service</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>cat</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+      <citerefentry project='man-
pages'><refentrytitle>cat</refentrytitle><manvolnum>1</manvolnum></citerefentry>
     </para>
   </refsect1>
 </refentry>
diff --git a/man/systemd-analyze.xml b/man/systemd-analyze.xml
index 1ff81d3d5a..198315052f 100644
--- a/man/systemd-analyze.xml
+++ b/man/systemd-analyze.xml
@@ -145,7 +145,7 @@
     <para><command>systemd-analyze dot</command> generates textual
```

```
   dependency graph description in dot format for further processing
   with the GraphViz
-   <citerefentry><refentrytitle>dot</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+
   <citerefentry project='die-net'><refentrytitle>dot</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   tool. Use a command line like <command>systemd-analyze dot | dot
   -Tsvg > systemd.svg</command> to generate a graphical dependency
   tree. Unless <option>--order</option> or
@@ -229,7 +229,7 @@
       <command>dot</command> command (see above), this selects which
       relationships are shown in the dependency graph. Both options
       require a
-       <citerefentry><refentrytitle>glob</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>glob</refentrytitle><manvolnum>7</manvolnum></citerefentry>
       pattern as an argument, which will be matched against the
       left-hand and the right-hand, respectively, nodes of a
       relationship.</para>
diff --git a/man/systemd-cat.xml b/man/systemd-cat.xml
index 38ddf66d27..9b1a8809dc 100644
--- a/man/systemd-cat.xml
+++
 b/man/systemd-cat.xml
@@ -171,7 +171,7 @@
   <para>
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemctl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>logger</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+     <citerefentry project='man-
pages'><refentrytitle>logger</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   </para>
  </refsect1>

diff --git a/man/systemd-cryptsetup-generator.xml b/man/systemd-cryptsetup-generator.xml
index 1974cd7a2d..b6270358ea 100644
--- a/man/systemd-cryptsetup-generator.xml
+++ b/man/systemd-cryptsetup-generator.xml
@@ -185,7 +185,7 @@
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>crypttab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-
cryptsetup@.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-
     <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+     <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-fstab-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>
```

```
   </para>
  </refsect1>
diff --git a/man/systemd-cryptsetup@.service.xml b/man/systemd-cryptsetup@.service.xml
index bd03637deb..ea524851eb 100644
--- a/man/systemd-cryptsetup@.service.xml
+++ b/man/systemd-cryptsetup@.service.xml
@@ -78,7 +78,7 @@
      <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd-cryptsetup-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>crypttab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+
      <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    </para>
  </refsect1>

diff --git a/man/systemd-efi-boot-generator.xml b/man/systemd-efi-boot-generator.xml
index fd7ba79837..3431c3ce5b 100644
--- a/man/systemd-efi-boot-generator.xml
+++ b/man/systemd-efi-boot-generator.xml
@@ -62,7 +62,7 @@
    does not communicate the used ESP to the OS, on systems where
    <filename>/boot</filename> is an explicitly configured mount (for
    example, listed in
-   <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>)
+   <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>)
    or where the <filename>/boot</filename> mount point is non-empty.
    Since this generator creates an automount unit, the mount will
    only be activated on-demand,
 when accessed.</para>
@@ -79,7 +79,7 @@
      <citerefentry><refentrytitle>systemd.automount</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd-gpt-auto-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>gummiboot</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+     <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
    </para>
  </refsect1>

diff --git a/man/systemd-firstboot.xml b/man/systemd-firstboot.xml
index 67d38ba31f..67289daa26 100644
--- a/man/systemd-firstboot.xml
+++ b/man/systemd-firstboot.xml
```

```
@@ -91,7 +91,7 @@

   <para>Note that this tool operates directly on the file system and
   does not involve any running system services, unlike
-   <citerefentry><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+
   <citerefentry project='man-
pages'><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
   <citerefentry><refentrytitle>timedatectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   or
   <citerefentry><refentrytitle>hostnamectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>.
@@ -125,7 +125,7 @@
       <varname>LANG=</varname> and <varname>LC_MESSAGES</varname>
       settings. The argument should be a valid locale identifier,
       such as <literal>de_DE.UTF-8</literal>. This controls the
-       <citerefentry><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>
       configuration file.</para></listitem>
     </varlistentry>

@@ -163,7 +163,7 @@

       <listitem><para>Sets the password of the system's root user.

 This creates a
-       <citerefentry><refentrytitle>shadow</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>shadow</refentrytitle><manvolnum>5</manvolnum></citerefentry>
       file. This setting exists in two forms:
       <option>--root-password=</option> accepts the password to set
       directly on the command line,
@@ -171,7 +171,7 @@
       Note that it is not recommended specifying passwords on the
       command line as other users might be able to see them simply
       by invoking
-
<citerefentry><refentrytitle>ps</refentrytitle><manvolnum>1</manvolnum></citerefentry>.</para></listitem>
+       <citerefentry project='die-
net'><refentrytitle>ps</refentrytitle><manvolnum>1</manvolnum></citerefentry>.</para></listitem>
     </varlistentry>

     <varlistentry>
@@ -244,13 +244,13 @@
   <title>See Also</title>
   <para>
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-
```

```
     <citerefentry><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+     <citerefentry project='man-
pages'><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>localtime</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>hostname</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>machine-id</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>shadow</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+     <citerefentry project='die-
net'><refentrytitle>shadow</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-machine-id-
setup</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+
     <citerefentry project='man-
pages'><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>timedatectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>hostnamectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   </para>
diff --git a/man/systemd-fstab-generator.xml b/man/systemd-fstab-generator.xml
index 022efb4130..bdc2dc1d0e 100644
--- a/man/systemd-fstab-generator.xml
+++ b/man/systemd-fstab-generator.xml
@@ -54,7 +54,7 @@

   <para><filename>systemd-fstab-generator</filename> is a generator
   that translates <filename>/etc/fstab</filename> (see
-   <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
   for details) into native systemd units early at boot and when
   configuration of the system manager is
 reloaded. This will
   instantiate mount and swap units as necessary.</para>
@@ -173,7 +173,7 @@
   <title>See Also</title>
   <para>
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+     <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd.mount</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd.swap</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-cryptsetup-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>
diff --git a/man/systemd-gpt-auto-generator.xml b/man/systemd-gpt-auto-generator.xml
index 8d2eaca4f6..bcc64ec9b5 100644
--- a/man/systemd-gpt-auto-generator.xml
+++ b/man/systemd-gpt-auto-generator.xml
```

```
@@ -66,7
 +66,7 @@
    Partitions Specification</ulink>. Note that this generator has no
    effect on non-GPT systems, on systems where the units are
    explicitly configured (for example, listed in
-    <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>),
+    <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>),
    or where the mount points are non-empty.</para>

    <para>This generator will only look for root partitions on the
@@ -169,9 +169,9 @@
      <citerefentry><refentrytitle>systemd-fstab-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd-efi-boot-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd-
cryptsetup@.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-
      <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>btrfs</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+      <citerefentry project='die-
net'><refentrytitle>cryptsetup</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+      <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+      <citerefentry project='man-
pages'><refentrytitle>btrfs</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    </para>
  </refsect1>

diff --git a/man/systemd-hibernate-resume-generator.xml b/man/systemd-hibernate-resume-generator.xml
index a21782cbf9..d811b9b551 100644
--- a/man/systemd-hibernate-resume-generator.xml
+++ b/man/systemd-hibernate-resume-generator.xml
@@ -73,7 +73,7 @@
        <listitem><para>Takes a path to the resume device. Both
        persistent block device paths like
        <filename>/dev/disk/by-foo/bar</filename>
 and
-       <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>-style
+       <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>-style
        specifiers like <literal>FOO=bar</literal> are
        supported.</para></listitem>
      </varlistentry>
diff --git a/man/systemd-journald.service.xml b/man/systemd-journald.service.xml
index 6b250b65e6..8280d6c874 100644
```

```
--- a/man/systemd-journald.service.xml
+++ b/man/systemd-journald.service.xml
@@ -241,7 +241,7 @@
     <citerefentry><refentrytitle>systemd.journal-
fields</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>sd-journal</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-coredump</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-    <citerefentry><refentrytitle>setfacl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+
+    <citerefentry project='die-
net'><refentrytitle>setfacl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>sd_journal_print</refentrytitle><manvolnum>4</manvolnum></citerefentry>,
     <command>pydoc systemd.journal</command>.
   </para>
diff --git a/man/systemd-localed.service.xml b/man/systemd-localed.service.xml
index 8999166383..06aa78c0e4 100644
--- a/man/systemd-localed.service.xml
+++ b/man/systemd-localed.service.xml
@@ -64,7 +64,7 @@
   unused.</para>

   <para>The tool
-   <citerefentry><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   is a command line client to this service.</para>

   <para>See the <ulink
@@ -77,10 +77,10 @@
   <title>See Also</title>
   <para>
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-
     <citerefentry><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+     <citerefentry project='man-
pages'><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>vconsole.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+     <citerefentry project='man-
pages'><refentrytitle>localectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+     <citerefentry
project='mankier'><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   </para>
  </refsect1>

diff --git a/man/systemd-nspawn.xml b/man/systemd-nspawn.xml
index 4a936d326f..65b4c2f294 100644
```

```
--- a/man/systemd-nspawn.xml
+++ b/man/systemd-nspawn.xml
@@ -598,7 +598,7 @@

       <listitem><para>Control
 the architecture ("personality")
       reported by
-      <citerefentry><refentrytitle>uname</refentrytitle><manvolnum>2</manvolnum></citerefentry>
+      <citerefentry project='man-
pages'><refentrytitle>uname</refentrytitle><manvolnum>2</manvolnum></citerefentry>
       in the container. Currently, only <literal>x86</literal> and
       <literal>x86-64</literal> are supported. This is useful when
       running a 32-bit container on a 64-bit host. If this setting
@@ -735,7 +735,7 @@
     <citerefentry
project='archlinux'><refentrytitle>pacman</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd.slice</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>machinectl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-    <citerefentry><refentrytitle>btrfs</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>btrfs</refentrytitle><manvolnum>8</manvolnum></citerefentry>
     </para>
  </refsect1>

diff --git a/man/systemd-quotacheck.service.xml b/man/systemd-quotacheck.service.xml
index 2179f11e95..9d4976274e 100644
--- a/man/systemd-quotacheck.service.xml
+++ b/man/systemd-quotacheck.service.xml
@@ -86,7 +86,7 @@
   <title>See Also</title>
   <para>
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-    <citerefentry><refentrytitle>quotacheck</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+    <citerefentry project='die-
net'><refentrytitle>quotacheck</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-
fsck@.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>
   </para>
  </refsect1>
diff --git a/man/systemd-remount-fs.service.xml b/man/systemd-remount-fs.service.xml
index 7b88ac3f3c..8e60e31b5c 100644
--- a/man/systemd-remount-fs.service.xml
+++ b/man/systemd-remount-fs.service.xml
@@
 -56,7 +56,7 @@

   <para><filename>systemd-remount-fs.service</filename> is an
   early-boot service that applies mount options listed in
```

```
-    <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
    to the root file system, the <filename>/usr</filename> file system
    and the kernel API file systems. This is required so that the
    mount options of these file systems -- which are pre-mounted by
@@ -80,8 +80,8 @@
    <title>See Also</title>
    <para>
      <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+      <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+
+      <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    </para>
  </refsect1>

diff --git a/man/systemd-socket-proxyd.xml b/man/systemd-socket-proxyd.xml
index 1c78b656e1..0b852e6bc1 100644
--- a/man/systemd-socket-proxyd.xml
+++ b/man/systemd-socket-proxyd.xml
@@ -72,7 +72,7 @@
    to a configured server for each client, and then bidirectionally
    forwards data between the two.</para>
    <para>This utility's behavior is similar to
-    <citerefentry><refentrytitle>socat</refentrytitle><manvolnum>1</manvolnum></citerefentry>.
+    <citerefentry project='die-
net'><refentrytitle>socat</refentrytitle><manvolnum>1</manvolnum></citerefentry>.
    The main differences for <command>systemd-socket-proxyd</command>
    are support for socket activation with
    <literal>Accept=false</literal> and an event-driven
@@ -183,9 +183,9 @@ $ curl http://localhost:80/]]></programlisting>
      <citerefentry><refentrytitle>systemd.socket</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd.service</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemctl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>socat</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>nginx</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>curl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+      <citerefentry project='die-
net'><refentrytitle>socat</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+      <citerefentry project='die-
net'><refentrytitle>nginx</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+      <citerefentry project='die-net'><refentrytitle>curl</refentrytitle><manvolnum>1</manvolnum></citerefentry>
    </para>
  </refsect1>
```

```
</refentry>
diff
 --git a/man/systemd-sysctl.service.xml b/man/systemd-sysctl.service.xml
index f35a18a4d4..d4c1a7ebe3 100644
--- a/man/systemd-sysctl.service.xml
+++ b/man/systemd-sysctl.service.xml
@@ -56,11 +56,11 @@

    <para><filename>systemd-sysctl.service</filename> is an early-boot
    service that configures
-    <citerefentry><refentrytitle>sysctl</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>sysctl</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    kernel parameters.</para>

    <para>See
-    <citerefentry><refentrytitle>sysctl.d</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>sysctl.d</refentrytitle><manvolnum>5</manvolnum></citerefentry>
    for information about the configuration of this service.</para>
  </refsect1>

@@ -68,8 +68,8 @@
    <title>See Also</title>
    <para>
      <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-
      <citerefentry><refentrytitle>sysctl.d</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>sysctl</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+      <citerefentry project='man-
pages'><refentrytitle>sysctl.d</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+      <citerefentry project='man-
pages'><refentrytitle>sysctl</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
    </para>
  </refsect1>

diff --git a/man/systemd-system.conf.xml b/man/systemd-system.conf.xml
index c7bcfaee4d..1b74ed38f7 100644
--- a/man/systemd-system.conf.xml
+++ b/man/systemd-system.conf.xml
@@ -172,7 +172,7 @@
        <citerefentry project='man-
pages'><refentrytitle>capabilities</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        for details. Takes a whitespace-separated list of capability
        names as read by
-        <citerefentry><refentrytitle>cap_from_name</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
+
```

```
        <citerefentry
project='mankier'><refentrytitle>cap_from_name</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
        Capabilities listed will be included in the bounding set, all
        others are removed. If the list of capabilities is prefixed
        with ~, all but the listed capabilities will be included, the
diff --git a/man/systemd-update-utmp.service.xml b/man/systemd-update-utmp.service.xml
index b842d29721..c8a9cb7c90 100644
--- a/man/systemd-update-utmp.service.xml
+++ b/man/systemd-update-utmp.service.xml
@@ -69,7 +69,7 @@
    <para>
      <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry project='man-
pages'><refentrytitle>utmp</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>auditd</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+     <citerefentry project='man-
pages'><refentrytitle>auditd</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    </para>
  </refsect1>

diff --git a/man/systemd-vconsole-setup.service.xml b/man/systemd-vconsole-setup.service.xml
index 59bb5e4e8c..7c6ed08997 100644
--- a/man/systemd-vconsole-setup.service.xml
+++ b/man/systemd-vconsole-setup.service.xml
@@ -57,9 +57,9 @@
    <para><filename>systemd-vconsole-setup.service</filename> is an
    early-boot service that configures the virtual console font and
    console keymap. Internally it calls
-   <citerefentry><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+   <citerefentry
project='mankier'><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>
    and
-   <citerefentry><refentrytitle>setfont</refentrytitle><manvolnum>8</manvolnum></citerefentry>.</para>
+   <citerefentry project='die-
net'><refentrytitle>setfont</refentrytitle><manvolnum>8</manvolnum></citerefentry>.</para>

    <para>See
    <citerefentry><refentrytitle>vconsole.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>
@@
 -105,8 +105,8 @@
    <para>
      <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>vconsole.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>setfont</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+     <citerefentry
project='mankier'><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+     <citerefentry project='die-
```

```
net'><refentrytitle>setfont</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd-
localed.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    </para>
  </refsect1>
diff --git a/man/systemd.automount.xml b/man/systemd.automount.xml
index 3db65d988d..b5b5885cdf 100644
--- a/man/systemd.automount.xml
+++
 b/man/systemd.automount.xml
@@ -96,7 +96,7 @@

    <para>Automount units may either be configured via unit files, or
    via <filename>/etc/fstab</filename> (see
-    <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
    for details).</para>

    <para>For details how systemd parses
@@ -145,8 +145,8 @@
        <citerefentry><refentrytitle>systemctl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
        <citerefentry><refentrytitle>systemd.unit</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
        <citerefentry><refentrytitle>systemd.mount</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>automount</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+
        <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+        <citerefentry project='die-
net'><refentrytitle>automount</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
        <citerefentry><refentrytitle>systemd.directives</refentrytitle><manvolnum>7</manvolnum></citerefentry>
      </para>
  </refsect1>
diff --git a/man/systemd.exec.xml b/man/systemd.exec.xml
index fdb1578641..56b53e6015 100644
--- a/man/systemd.exec.xml
+++ b/man/systemd.exec.xml
@@ -663,7 +663,7 @@
        <citerefentry project='man-
pages'><refentrytitle>capabilities</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        for details. Takes a whitespace-separated list of capability
        names as read by
-        <citerefentry><refentrytitle>cap_from_name</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
+        <citerefentry
project='mankier'><refentrytitle>cap_from_name</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
        e.g. <constant>CAP_SYS_ADMIN</constant>,
        <constant>CAP_DAC_OVERRIDE</constant>,
```

```
        <constant>CAP_SYS_PTRACE</constant>. Capabilities listed will
@@ -711,7 +711,7 @@
        set for the executed process. Take a capability string
        describing the effective, permitted and inherited capability
        sets as documented in
-       <citerefentry><refentrytitle>cap_from_text</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
+       <citerefentry
project='mankier'><refentrytitle>cap_from_text</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
        Note that these capability sets are usually influenced (and
        filtered) by the capabilities attached to the executed file.
        Due to that <varname>CapabilityBoundingSet=</varname> is
@@ -881,7 +881,7 @@
        <option>private</option>, which control whether mounts in the
        file system namespace set up for this unit's processes will
        receive or propagate mounts
 or unmounts. See
-       <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>2</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>2</manvolnum></citerefentry>
        for details. Defaults to <option>shared</option>. Use
        <option>shared</option> to ensure that mounts and unmounts are
        propagated from the host to the container and vice versa. Use
@@ -929,7 +929,7 @@
        authorize the transition. This directive is ignored if SELinux
        is disabled. If prefixed by <literal>-</literal>, all errors
        will be ignored. See
-       <citerefentry><refentrytitle>setexeccon</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>setexeccon</refentrytitle><manvolnum>3</manvolnum></citerefentry>
        for details.</para></listitem>
      </varlistentry>

@@ -1076,7 +1076,7 @@
        prefixed with <constant>~</constant> the listed
 address
        families will be applied as blacklist, otherwise as whitelist.
        Note that this restricts access to the
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>2</manvolnum></citerefentry>
        system call only. Sockets passed into the process by other
        means (for example, by using socket activation with socket
        units, see
@@ -1104,7 +1104,7 @@
        <term><varname>Personality=</varname></term>

        <listitem><para>Controls which kernel architecture
-       <citerefentry><refentrytitle>uname</refentrytitle><manvolnum>2</manvolnum></citerefentry>
```

```
+       <citerefentry project='man-
pages'><refentrytitle>uname</refentrytitle><manvolnum>2</manvolnum></citerefentry>
        shall report, when invoked by unit processes. Takes one of
        <constant>x86</constant> and <constant>x86-64</constant>.
 This
        is useful when running 32-bit services on a 64-bit host
@@ -1166,7 +1166,7 @@
        <term><varname>$LANG</varname></term>

        <listitem><para>Locale. Can be set in
-       <citerefentry><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>
        or on the kernel command line (see
        <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>
        and
@@ -1184,7 +1184,7 @@
        login shell. The variables are set for the units that have
        <varname>User=</varname> set, which includes user
        <command>systemd</command> instances. See
-       <citerefentry><refentrytitle>passwd</refentrytitle><manvolnum>5</manvolnum></citerefentry>.
+       <citerefentry project='die-
net'><refentrytitle>passwd</refentrytitle><manvolnum>5</manvolnum></citerefentry>.

       </para></listitem>
      </varlistentry>

diff --git a/man/systemd.generator.xml b/man/systemd.generator.xml
index ccb698752a..9b39e732e3 100644
--- a/man/systemd.generator.xml
+++ b/man/systemd.generator.xml
@@ -333,7 +333,7 @@ find $dir</programlisting>
     <citerefentry><refentrytitle>systemd-debug-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-efi-boot-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-fstab-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-    <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+    <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-getty-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-gpt-auto-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd-hibernate-resume-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
diff --git a/man/systemd.journal-fields.xml b/man/systemd.journal-fields.xml
```

```
index 1fd46de31f..7d6c5c715f 100644
--- a/man/systemd.journal-fields.xml
+++ b/man/systemd.journal-fields.xml
@@ -134,7 +134,7 @@
         derived from glibc's
         <varname>program_invocation_short_name</varname> variable,
         see
-
<citerefentry><refentrytitle>program_invocation_short_name</refentrytitle><manvolnum>3</manvolnum></citere
fentry>.)</para>
+         <citerefentry project='die-
net'><refentrytitle>program_invocation_short_name</refentrytitle><manvolnum>3</manvolnum></citerefentry>.)
</para>
       </listitem>

     </varlistentry>
diff --git a/man/systemd.kill.xml b/man/systemd.kill.xml
index c974e22489..e57f0e7242 100644
--- a/man/systemd.kill.xml
+++ b/man/systemd.kill.xml
@@ -135,7
 +135,7 @@
       of shutting down a unit (see above), and is usually followed
       by <constant>SIGKILL</constant> (see above and below). For a
       list of valid signals, see
-       <citerefentry><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>.
+       <citerefentry project='man-
pages'><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>.
       Defaults to <constant>SIGTERM</constant>. </para></listitem>
     </varlistentry>

@@ -176,7 +176,7 @@
       <citerefentry><refentrytitle>systemd.exec</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd.directives</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>kill</refentrytitle><manvolnum>2</manvolnum></citerefentry>,
-       <citerefentry><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>signal</refentrytitle><manvolnum>7</manvolnum></citerefentry>
     </para>
  </refsect1>

diff --git a/man/systemd.mount.xml b/man/systemd.mount.xml
index 5cbde8b84c..fcb9a44161 100644
--- a/man/systemd.mount.xml
+++ b/man/systemd.mount.xml
@@ -68,7 +68,7 @@
   <para>Additional options are listed in
   <citerefentry><refentrytitle>systemd.exec</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
```

```
   which define the execution environment the
-    <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
   binary is executed in, and in
   <citerefentry><refentrytitle>systemd.kill</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
   which define the way the processes are terminated, and in
@@ -78,7 +78,7 @@
   particularly useful for mount units specifying a
   <literal>Type=</literal> option or using configuration
 not
   specified in <filename>/etc/fstab</filename>;
-    <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
   will refuse options that are not listed in
   <filename>/etc/fstab</filename> if it is not run as UID 0.</para>

@@ -118,7 +118,7 @@

   <para>Mount units may either be configured via unit files, or via
   <filename>/etc/fstab</filename> (see
-    <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+    <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
   for details). Mounts listed in <filename>/etc/fstab</filename>
   will be converted into native units dynamically at boot and when
   the configuration of the system manager is reloaded. In general,
@@ -231,7 +231,7 @@
       <term><varname>What=</varname></term>
       <listitem><para>Takes an absolute path of a device node, file
       or other resource to mount. See
-       <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
       for details. If this refers to a device node, a dependency on
       the respective device unit is automatically created. (See
       <citerefentry><refentrytitle>systemd.device</refentrytitle><manvolnum>5</manvolnum></citerefentry>
@@ -251,7 +251,7 @@
     <varlistentry>
       <term><varname>Type=</varname></term>
       <listitem><para>Takes a string for the file system type. See
-       <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>
       for details. This setting
 is optional.</para></listitem>
     </varlistentry>
```

```
@@ -270,7 +270,7 @@
       the options specified in <varname>Options=</varname> is
       relaxed, and unknown mount options are tolerated. This
       corresponds with
-       <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>'s
+       <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>'s
       <parameter>-s</parameter> switch. Defaults to
       off.</para></listitem>
     </varlistentry>
@@ -321,7 +321,7 @@
       <citerefentry><refentrytitle>systemd.service</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd.device</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry project='man-
pages'><refentrytitle>proc</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-       <citerefentry><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+
       <citerefentry project='man-
pages'><refentrytitle>mount</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd-fstab-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd.directives</refentrytitle><manvolnum>7</manvolnum></citerefentry>
     </para>
diff --git a/man/systemd.network.xml b/man/systemd.network.xml
index 24f8416ef9..97386271d6 100644
--- a/man/systemd.network.xml
+++ b/man/systemd.network.xml
@@ -286,7 +286,7 @@
         separated by a <literal>/</literal> character. Specify
         this key more than once to configure several addresses.
         The format of the address must be as described in
-         <citerefentry><refentrytitle>inet_pton</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
+         <citerefentry project='man-
pages'><refentrytitle>inet_pton</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
         This is a short-hand for an [Address] section only
         containing an Address key (see below). This option may be
         specified more than once.
@@ -312,7 +312,7 @@
       <listitem>
         <para>The gateway address, which must be in the format
         described in
-         <citerefentry><refentrytitle>inet_pton</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
+         <citerefentry project='man-
pages'><refentrytitle>inet_pton</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
         This is a short-hand for a [Route] section only containing
         a Gateway key. This option may be specified more than
         once.</para>
```

```
@@ -323,7 +323,7 @@
        <listitem>
          <para>A DNS server address, which must be in the format
          described in
-          <citerefentry><refentrytitle>inet_pton</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
+          <citerefentry project='man-
pages'><refentrytitle>inet_pton</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
           This option may be specified more than once.</para>
        </listitem>
      </varlistentry>
@@ -429,7 +429,7 @@
        <listitem>
          <para>The broadcast address, which must be in the format
          described in
-          <citerefentry><refentrytitle>inet_pton</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
+          <citerefentry project='man-
pages'><refentrytitle>inet_pton</refentrytitle><manvolnum>3</manvolnum></citerefentry>.
          This key only applies to IPv4 addresses. If it is not
          given, it is derived from the <literal>Address</literal>
          key.</para>
diff --git a/man/systemd.path.xml b/man/systemd.path.xml
index 08a7ec8975..d02bc92ae6 100644
--- a/man/systemd.path.xml
+++ b/man/systemd.path.xml
@@ -74,7 +74,7 @@
   (see below).</para>

   <para>Internally, path units use the
-   <citerefentry><refentrytitle>inotify</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+
   <citerefentry project='man-
pages'><refentrytitle>inotify</refentrytitle><manvolnum>7</manvolnum></citerefentry>
   API to monitor file systems. Due to that, it suffers by the same
   limitations as inotify, and for example cannot be used to monitor
   files or directories changed by other machines on remote NFS file
@@ -187,7 +187,7 @@
      <citerefentry><refentrytitle>systemctl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd.unit</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd.service</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>inotify</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
+      <citerefentry project='man-
pages'><refentrytitle>inotify</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>systemd.directives</refentrytitle><manvolnum>7</manvolnum></citerefentry>
     </para>
  </refsect1>
diff --git a/man/systemd.socket.xml b/man/systemd.socket.xml
index 3938345fac..2f541937f8 100644
--- a/man/systemd.socket.xml
```

```
+++ b/man/systemd.socket.xml
@@ -265,7 +265,7 @@
       <listitem><para>Takes a one of <option>default</option>,
       <option>both</option> or <option>ipv6-only</option>. Controls
       the IPV6_V6ONLY socket option (see
-       <citerefentry><refentrytitle>ipv6</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>ipv6</refentrytitle><manvolnum>7</manvolnum></citerefentry>
       for details). If <option>both</option>, IPv6 sockets bound
       will be accessible via both IPv4 and IPv6. If
       <option>ipv6-only</option>, they will be accessible via IPv6
@@ -294,7 +294,7 @@
       this socket to. If set, traffic will only be accepted from the
       specified network interfaces. This
  controls the
       SO_BINDTODEVICE socket option (see
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
       for details). If this option is used, an automatic dependency
       from this socket unit on the network interface device unit
       (<citerefentry><refentrytitle>systemd.device</refentrytitle><manvolnum>5</manvolnum></citerefentry>
@@ -380,7 +380,7 @@
       <filename>/proc/sys/net/ipv4/tcp_keepalive_time</filename>)
       for all TCP streams accepted on this socket. This controls the
       SO_KEEPALIVE socket option (see
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
       and the <ulink
       url="http://www.tldp.org/HOWTO/html_single/TCP-Keepalive-HOWTO/">TCP
        Keepalive HOWTO</ulink> for details.) Defaults to
@@ -392,7 +392,7 @@
       <listitem><para>Takes time (in seconds) as argument . The connection needs to remain
       idle before TCP starts sending keepalive probes. This controls the TCP_KEEPIDLE
       socket option (see
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
       and the <ulink
       url="http://www.tldp.org/HOWTO/html_single/TCP-Keepalive-HOWTO/">TCP
       Keepalive HOWTO</ulink> for details.)
@@ -405,7 +405,7 @@
       individual keepalive probes, if the socket option SO_KEEPALIVE
       has been set on this socket seconds as argument. This controls
       the TCP_KEEPINTVL socket option (see
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+
```

```
        <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        and the <ulink
        url="http://www.tldp.org/HOWTO/html_single/TCP-Keepalive-HOWTO/">TCP
        Keepalive HOWTO</ulink> for details.) Defaults value is 75
@@ -418,7 +418,7 @@
        unacknowledged probes to send before considering the
        connection dead and notifying the application layer. This
        controls the TCP_KEEPCNT socket option (see
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        and the <ulink
        url="http://www.tldp.org/HOWTO/html_single/TCP-Keepalive-HOWTO/">TCP
        Keepalive HOWTO</ulink> for details.) Defaults value is
@@ -431,7 +431,7 @@
        algorithm works by combining a number of small outgoing
        messages,
 and sending them all at once. This controls the
        TCP_NODELAY socket option (see
-       <citerefentry><refentrytitle>tcp</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>tcp</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        Defaults to <option>false</option>.</para></listitem>
      </varlistentry>

@@ -440,7 +440,7 @@
        <listitem><para>Takes an integer argument controlling the
        priority for all traffic sent from this socket. This controls
        the SO_PRIORITY socket option (see
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        for details.).</para></listitem>
      </varlistentry>

@@ -453,7 +453,7 @@
        established. When this option is set, the
        <constant>TCP_DEFER_ACCEPT</constant> socket
 option will be
        used (see
-       <citerefentry><refentrytitle>tcp</refentrytitle><manvolnum>7</manvolnum></citerefentry>),
+       <citerefentry project='die-
net'><refentrytitle>tcp</refentrytitle><manvolnum>7</manvolnum></citerefentry>),
        and the kernel will ignore initial ACK packets without any
        data. The argument specifies the approximate amount of time
        the kernel should wait for incoming data before falling back
@@ -480,7 +480,7 @@
```

```
       <listitem><para>Takes an integer argument controlling the
       receive or send buffer sizes of this socket, respectively.
       This controls the SO_RCVBUF and SO_SNDBUF socket options (see
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
       for details.). The usual suffixes K, M, G are supported and
       are understood
 to the base of 1024.</para></listitem>
     </varlistentry>
@@ -490,7 +490,7 @@
       <listitem><para>Takes an integer argument controlling the IP
       Type-Of-Service field for packets generated from this socket.
       This controls the IP_TOS socket option (see
-       <citerefentry><refentrytitle>ip</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='die-net'><refentrytitle>ip</refentrytitle><manvolnum>7</manvolnum></citerefentry>
       for details.). Either a numeric string or one of
       <option>low-delay</option>, <option>throughput</option>,
       <option>reliability</option> or <option>low-cost</option> may
@@ -503,9 +503,9 @@
       Time-To-Live/IPv6 Hop-Count field for packets generated from
       this socket. This sets the IP_TTL/IPV6_UNICAST_HOPS socket
       options (see
-       <citerefentry><refentrytitle>ip</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='die-net'><refentrytitle>ip</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        and
-       <citerefentry><refentrytitle>ipv6</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>ipv6</refentrytitle><manvolnum>7</manvolnum></citerefentry>
       for details.)</para></listitem>
     </varlistentry>

@@ -515,7 +515,7 @@
       mark of packets generated by this socket. This can be used in
       the firewall logic to filter packets from this socket. This
       sets the SO_MARK socket option. See
-       <citerefentry><refentrytitle>iptables</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>iptables</refentrytitle><manvolnum>8</manvolnum></citerefentry>
       for details.</para></listitem>
     </varlistentry>

@@ -526,7 +526,7 @@
       <citerefentry><refentrytitle>bind</refentrytitle><manvolnum>2</manvolnum></citerefentry>s
       to this TCP or UDP
 port. This controls the SO_REUSEPORT socket
       option. See
-       <citerefentry><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
```

```
+       <citerefentry project='man-
pages'><refentrytitle>socket</refentrytitle><manvolnum>7</manvolnum></citerefentry>
        for details.</para></listitem>
      </varlistentry>

@@ -578,7 +578,7 @@
        control the mq_maxmsg field or the mq_msgsize field,
        respectively, when creating the message queue. Note that
        either none or both of these variables need to be set. See
-       <citerefentry><refentrytitle>mq_setattr</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+       <citerefentry project='die-
net'><refentrytitle>mq_setattr</refentrytitle><manvolnum>3</manvolnum></citerefentry>
        for details.</para></listitem>
      </varlistentry>

diff --git a/man/systemd.swap.xml b/man/systemd.swap.xml
index 23b9c712ed..5016f453d5 100644
--- a/man/systemd.swap.xml
+++ b/man/systemd.swap.xml
@@
 -69,7 +69,7 @@
    <para>Additional options are listed in
    <citerefentry><refentrytitle>systemd.exec</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
    which define the execution environment the
-   <citerefentry><refentrytitle>swapon</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>swapon</refentrytitle><manvolnum>8</manvolnum></citerefentry>
    binary is executed in, and in
    <citerefentry><refentrytitle>systemd.kill</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
    which define the way the processes are terminated, and in
@@ -100,7 +100,7 @@

    <para>Swap units may either be configured via unit files, or via
    <filename>/etc/fstab</filename> (see
-   <citerefentry><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+   <citerefentry project='man-
pages'><refentrytitle>fstab</refentrytitle><manvolnum>5</manvolnum></citerefentry>
    for details). Swaps
  listed in <filename>/etc/fstab</filename> will
    be converted into native units dynamically at boot and when the
    configuration of the system manager is reloaded. See
@@ -161,7 +161,7 @@
        <term><varname>What=</varname></term>
        <listitem><para>Takes an absolute path of a device node or
        file to use for paging. See
-       <citerefentry><refentrytitle>swapon</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>swapon</refentrytitle><manvolnum>8</manvolnum></citerefentry>
```

```
       for details. If this refers to a device node, a dependency on
       the respective device unit is automatically created. (See
       <citerefentry><refentrytitle>systemd.device</refentrytitle><manvolnum>5</manvolnum></citerefentry>
@@ -187,7 +187,7 @@
       device. This may be used for controlling discard options among
       other functionality, if the swap backing device supports the
       discard or trim
 operation. (See
-       <citerefentry><refentrytitle>swapon</refentrytitle><manvolnum>8</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>swapon</refentrytitle><manvolnum>8</manvolnum></citerefentry>
       for more information.) </para></listitem>
     </varlistentry>

@@ -229,7 +229,7 @@
       <citerefentry><refentrytitle>systemd.resource-
control</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd.device</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd.mount</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-       <citerefentry><refentrytitle>swapon</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
+       <citerefentry project='man-
pages'><refentrytitle>swapon</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd-fstab-
generator</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd.directives</refentrytitle><manvolnum>7</manvolnum></citerefentry>
     </para>
diff --git a/man/systemd.unit.xml b/man/systemd.unit.xml
index a452f87baf..c2e374a94e 100644
--- a/man/systemd.unit.xml
+++ b/man/systemd.unit.xml
@@ -826,7 +826,7 @@
       <varname>cris</varname> to test
       against a specific architecture. The architecture is
       determined from the information returned by
-       <citerefentry><refentrytitle>uname</refentrytitle><manvolnum>2</manvolnum></citerefentry>
+       <citerefentry project='man-
pages'><refentrytitle>uname</refentrytitle><manvolnum>2</manvolnum></citerefentry>
       and is thus subject to
       <citerefentry><refentrytitle>personality</refentrytitle><manvolnum>2</manvolnum></citerefentry>.
       Note that a <varname>Personality=</varname> setting in the
@@ -1438,7 +1438,7 @@ PrivateTmp=yes</programlisting>
     <citerefentry><refentrytitle>systemd-analyze</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry project='man-
pages'><refentrytitle>capabilities</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd.directives</refentrytitle><manvolnum>7</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>uname</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+     <citerefentry project='man-
pages'><refentrytitle>uname</refentrytitle><manvolnum>1</manvolnum></citerefentry>
```

```
   </para>
  </refsect1>

diff --git a/man/systemd.xml b/man/systemd.xml
index 9b92140e6b..d006b0bb99 100644
--- a/man/systemd.xml
+++ b/man/systemd.xml
@@ -1012,9 +1012,9 @@
         <listitem><para>Set the system locale to use. This overrides
         the settings in <filename>/etc/locale.conf</filename>. For
         more information see
-        <citerefentry><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>
+        <citerefentry project='man-pages'><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>
         and
-        <citerefentry><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>.
+        <citerefentry project='man-pages'><refentrytitle>locale</refentrytitle><manvolnum>7</manvolnum></citerefentry>.
         </para></listitem>
       </varlistentry>
     </variablelist>
@@ -1077,7 +1077,7 @@
     <para>
       The <ulink url="http://www.freedesktop.org/wiki/Software/systemd/">systemd Homepage</ulink>,
       <citerefentry><refentrytitle>systemd-system.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-      <citerefentry><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+      <citerefentry project='man-pages'><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemctl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>journalctl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
       <citerefentry><refentrytitle>systemd-notify</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
diff --git a/man/vconsole.conf.xml b/man/vconsole.conf.xml
index 17bea8b682..27196d44e9 100644
--- a/man/vconsole.conf.xml
+++ b/man/vconsole.conf.xml
@@ -129,9 +129,9 @@ FONT=eurlatgr</programlisting>
       <para>
         <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
         <citerefentry><refentrytitle>systemd-vconsole-setup.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>setfont</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-        <citerefentry><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
+        <citerefentry project='mankier'><refentrytitle>loadkeys</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+
+        <citerefentry project='die-net'><refentrytitle>setfont</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
```

```
+       <citerefentry project='man-
pages'><refentrytitle>locale.conf</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
        <citerefentry><refentrytitle>systemd-
localed.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>
      </para>
  </refsect1>
```

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0102-man-fix-a-bunch-of-links.patch
No license file was found, but licenses were detected in source scan.

```
From 5ec508cc5c13d831c93ce98d84b1d9cedb0117a7 Mon Sep 17 00:00:00 2001
From: Jan Synacek <jsynacek@redhat.com>
Date: Mon, 1 Feb 2016 09:23:58 +0100
Subject: [PATCH] sd-journal: introduce has_runtime_files and
has_persistent_files

Also introduce sd_journal_has_runtime_files() and
sd_journal_has_persistent_files() to the public API. These functions
can be used to easily find out if the open journal files are runtime
and/or persistent.

Cherry-picked from: 39fd5b08a73f144a20202a665bd25cad51d8a90b
Resolves: #1082179
---
Makefile-man.am                   |  7 ++
man/sd-journal.xml                |  8 ++-
man/sd_journal_has_runtime_files.xml | 95 ++++++++++++++++++++++++++++++
src/journal/journal-internal.h    |  2 +
src/journal/sd-journal.c          | 29 ++++++---
src/systemd/sd-journal.h          |  3 +
6 files changed, 133 insertions(+), 11 deletions(-)
create mode 100644 man/sd_journal_has_runtime_files.xml

diff
 --git a/Makefile-man.am b/Makefile-man.am
index 497be6612c..7ec709c8b8 100644
--- a/Makefile-man.am
+++ b/Makefile-man.am
@@ -40,6 +40,7 @@ MANPAGES += \
 man/sd_journal_get_fd.3 \
 man/sd_journal_get_realtime_usec.3 \
 man/sd_journal_get_usage.3 \
+ man/sd_journal_has_runtime_files.3 \
 man/sd_journal_next.3 \
 man/sd_journal_open.3 \
 man/sd_journal_print.3 \
```

```
@@ -176,6 +177,7 @@ MANPAGES_ALIAS += \
 man/sd_journal_get_events.3 \
 man/sd_journal_get_monotonic_usec.3 \
 man/sd_journal_get_timeout.3 \
+ man/sd_journal_has_persistent_files.3 \
 man/sd_journal_next_skip.3 \
 man/sd_journal_open_container.3 \
 man/sd_journal_open_directory.3 \
@@ -287,6 +289,7 @@ man/sd_journal_get_data_threshold.3: man/sd_journal_get_data.3
man/sd_journal_get_events.3: man/sd_journal_get_fd.3
man/sd_journal_get_monotonic_usec.3: man/sd_journal_get_realtime_usec.3
man/sd_journal_get_timeout.3: man/sd_journal_get_fd.3
+man/sd_journal_has_persistent_files.3: man/sd_journal_has_runtime_files.3
 man/sd_journal_next_skip.3: man/sd_journal_next.3
man/sd_journal_open_container.3: man/sd_journal_open.3
man/sd_journal_open_directory.3: man/sd_journal_open.3
@@ -500,6 +503,9 @@ man/sd_journal_get_monotonic_usec.html: man/sd_journal_get_realtime_usec.html
man/sd_journal_get_timeout.html: man/sd_journal_get_fd.html
 $(html-alias)

+man/sd_journal_has_persistent_files.html: man/sd_journal_has_runtime_files.html
+ $(html-alias)
+
man/sd_journal_next_skip.html: man/sd_journal_next.html
 $(html-alias)

@@ -1727,6 +1733,7 @@ EXTRA_DIST += \
 man/sd_journal_get_fd.xml \
 man/sd_journal_get_realtime_usec.xml \
 man/sd_journal_get_usage.xml \
+ man/sd_journal_has_runtime_files.xml \
 man/sd_journal_next.xml \
 man/sd_journal_open.xml \
 man/sd_journal_print.xml \
diff --git a/man/sd-journal.xml b/man/sd-journal.xml
index 9b1a52207f..a1185d372b 100644
--- a/man/sd-journal.xml
+++ b/man/sd-journal.xml
@@ -81,9 +81,11 @@
<citerefentry><refentrytitle>sd_journal_get_cutoff_realtime_usec</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
<citerefentry><refentrytitle>sd_journal_get_cutoff_monotonic_usec</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
    <citerefentry><refentrytitle>sd_journal_get_usage</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
-
<citerefentry><refentrytitle>sd_journal_get_catalog</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+
<citerefentry><refentrytitle>sd_journal_get_catalog</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
```

```
+    <citerefentry><refentrytitle>sd_journal_get_fd</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
+
<citerefentry><refentrytitle>sd_journal_has_runtime_files</refentrytitle><manvolnum>3</manvolnum></citerefen
try>
    and
-    <citerefentry><refentrytitle>sd_journal_get_fd</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+
<citerefentry><refentrytitle>sd_journal_has_persistent_files</refentrytitle><manvolnum>3</manvolnum></citerefe
ntry>
     for more information about the functions implemented.</para>

    <para>Command line access for submitting entries to the journal is
@@ -116,6 +118,8 @@
      <citerefentry><refentrytitle>sd_journal_get_fd</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
<citerefentry><refentrytitle>sd_journal_query_unique</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
<citerefentry><refentrytitle>sd_journal_get_catalog</refentrytitle><manvolnum>3</manvolnum></citerefentry>, +
<citerefentry><refentrytitle>sd_journal_has_runtime_files</refentrytitle><manvolnum>3</manvolnum></citerefen
try>,
+
<citerefentry><refentrytitle>sd_journal_has_persistent_files</refentrytitle><manvolnum>3</manvolnum></citerefe
ntry>,
      <citerefentry><refentrytitle>journalctl</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <citerefentry><refentrytitle>sd-id128</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
      <citerefentry project='die-net'><refentrytitle>pkg-
config</refentrytitle><manvolnum>1</manvolnum></citerefentry>
diff
 --git a/man/sd_journal_has_runtime_files.xml b/man/sd_journal_has_runtime_files.xml
new file mode 100644
index 0000000000..237e649206
--- /dev/null
+++ b/man/sd_journal_has_runtime_files.xml
@@ -0,0 +1,95 @@
+<?xml version='1.0'?> <!--*-nxml-*-->
+<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook XML V4.2//EN"
+  "http://www.oasis-open.org/docbook/xml/4.2/docbookx.dtd">
+
+<!--
+  This file is part of systemd.
+
+  Copyright 2016 Jan Synáek
+
+  systemd is free software; you can redistribute it and/or modify it
+  under the terms of the GNU Lesser General Public License as published by
+  the Free Software Foundation; either version 2.1 of the License, or
+  (at your option) any later version.
+
+  systemd is distributed in the hope that it will be useful, but
+  WITHOUT ANY WARRANTY; without even the implied warranty of
```

```
+  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
+  Lesser General
 Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+-->
+
+<refentry id="sd_journal_has_runtime_files">
+
+  <refentryinfo>
+    <title>sd_journal_has_runtime_files</title>
+    <productname>systemd</productname>
+
+    <authorgroup>
+      <author>
+        <contrib>Developer</contrib>
+        <firstname>Jan</firstname>
+        <surname>Synáek</surname>
+        <email>jan.synacek@gmail.com</email>
+      </author>
+    </authorgroup>
+  </refentryinfo>
+
+  <refmeta>
+    <refentrytitle>sd_journal_has_runtime_files</refentrytitle>
+    <manvolnum>3</manvolnum>
+  </refmeta>
+
+  <refnamediv>
+    <refname>sd_journal_has_runtime_files</refname>
+    <refname>sd_journal_has_persistent_files</refname>
+    <refpurpose>Query availability of runtime or persistent journal files.</refpurpose>
+  </refnamediv>
+
+  <refsynopsisdiv>
+    <funcsynopsis>
+      <funcsynopsisinfo>#include
 &lt;systemd/sd-journal.h&gt;</funcsynopsisinfo>
+
+      <funcprototype>
+        <funcdef>int <function>sd_journal_has_runtime_files</function></funcdef>
+        <paramdef>sd_journal *<parameter>j</parameter></paramdef>
+      </funcprototype>
+
+      <funcprototype>
+        <funcdef>int <function>sd_journal_has_persistent_files</function></funcdef>
+        <paramdef>sd_journal *<parameter>j</parameter></paramdef>
```

```
+     </funcprototype>
+
+   </funcsynopsis>
+ </refsynopsisdiv>
+
+ <refsect1>
+   <title>Description</title>
+
+   <para><function>sd_journal_has_runtime_files()</function> returns a positive value
+   if runtime journal files (present in /run/systemd/journal/) have been found.
+   Otherwise returns 0.</para>
+
+   <para><function>sd_journal_has_persistent_files()</function> returns a positive value
+   if persistent journal files (present in /var/log/journal/) have been found.
+   Otherwise returns 0.</para>
+ </refsect1>
+
+ <refsect1>
+
   <title>Return value</title>
+   <para>Both <function>sd_journal_has_runtime_files()</function>
+   and <function>sd_journal_has_persistent_files()</function> return -EINVAL
+   if their argument is NULL.
+   </para>
+ </refsect1>
+
+ <refsect1>
+   <title>See Also</title>
+   <para>
+     <citerefentry><refentrytitle>sd-journal</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+   </para>
+ </refsect1>
+
+</refentry>
diff --git a/src/journal/journal-internal.h b/src/journal/journal-internal.h
index b51ecdb600..115d7776da 100644
--- a/src/journal/journal-internal.h
+++ b/src/journal/journal-internal.h
@@ -115,6 +115,8 @@ struct sd_journal {
                         removed, and there were no more
                         files, so sd_j_enumerate_unique
                         will return a value equal to 0. */
+       bool has_runtime_files:1;
+       bool has_persistent_files:1;

       size_t data_threshold;

diff --git
```

```
 a/src/journal/sd-journal.c b/src/journal/sd-journal.c
index 9b9e8ac859..20456c3a12 100644
--- a/src/journal/sd-journal.c
+++ b/src/journal/sd-journal.c
@@ -1230,8 +1230,7 @@ static int add_any_file(sd_journal *j, const char *path) {
}

static int add_file(sd_journal *j, const char *prefix, const char *filename) {
-        _cleanup_free_ char *path = NULL;
-        int r;
+        char *path = NULL;

        assert(j);
        assert(prefix);
@@ -1241,14 +1240,14 @@ static int add_file(sd_journal *j, const char *prefix, const char *filename) {
            !file_type_wanted(j->flags, filename))
                return 0;

-        path = strjoin(prefix, "/", filename, NULL);
-        if (!path)
-                return -ENOMEM;
+        path = strjoina(prefix, "/", filename);

-        r = add_any_file(j, path);
-        if (r == -ENOENT)
-                return 0;
-        return r;
+        if (!j->has_runtime_files && path_startswith(path, "/run/log/journal"))
+                j->has_runtime_files = true;
+        else if (!j->has_persistent_files && path_startswith(path, "/var/log/journal"))
+                j->has_persistent_files = true;
+
+        return add_any_file(j, path);
}

static int remove_file(sd_journal *j, const char *prefix, const char *filename) {
@@ -2616,3 +2615,15 @@ _public_ int sd_journal_get_data_threshold(sd_journal *j, size_t *sz) {
        *sz = j->data_threshold;
        return 0;
}
+
+_public_ int sd_journal_has_runtime_files(sd_journal *j) {
+        assert_return(j, -EINVAL);
+
+        return j->has_runtime_files;
+}
+
```

```
+_public_ int sd_journal_has_persistent_files(sd_journal *j) {
+        assert_return(j, -EINVAL);
+
+        return j->has_persistent_files;
+}
diff --git a/src/systemd/sd-journal.h b/src/systemd/sd-journal.h
index 00237a2158..d5fd46eea4 100644
--- a/src/systemd/sd-journal.h
+++ b/src/systemd/sd-journal.h
@@ -138,6 +138,9 @@ int sd_journal_reliable_fd(sd_journal *j);
int sd_journal_get_catalog(sd_journal
 *j, char **text);
int sd_journal_get_catalog_for_message_id(sd_id128_t id, char **text);

+int sd_journal_has_runtime_files(sd_journal *j);
+int sd_journal_has_persistent_files(sd_journal *j);
+
/* the inverse condition avoids ambiguity of danling 'else' after the macro */
#define SD_JOURNAL_FOREACH(j)                                   \
        if (sd_journal_seek_head(j) < 0) { }                    \
```

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0278-sd-journal-introduce-has_runtime_files-and-has_persi.patch
No license file was found, but licenses were detected in source scan.

```
From 0756d902734c3d4353264d1b4c2ccec87359bd4a Mon Sep 17 00:00:00 2001
From: Lennart Poettering <lennart@poettering.net>
Date: Tue, 21 Apr 2015 17:26:56 +0200
Subject: [PATCH] tmpfiles: there's no systemd-forbid-user-logins.service
service

(cherry picked from commit 451d691ae110a600497348d9f6288bc84efb8642)

Cherry-picked from: 0d2b365
Resolves: #1222517
---
tmpfiles.d/systemd-nologin.conf | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

diff --git a/tmpfiles.d/systemd-nologin.conf b/tmpfiles.d/systemd-nologin.conf
index d61232b534..a30a8da604 100644
--- a/tmpfiles.d/systemd-nologin.conf
+++ b/tmpfiles.d/systemd-nologin.conf
@@ -5,7 +5,7 @@
#  the Free Software Foundation; either version 2.1 of the License, or
#  (at your option) any later version.
```

-# See tmpfiles.d(5) and systemd-forbid-user-logins.service(5).
+# See tmpfiles.d(5), systemd-user-session.service(5) and pam_nologin(8).
This file has special
 suffix so it is not run by mistake.

F! /run/nologin 0644 - - - "System is booting up. See pam_nologin(8)"

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0171-tmpfiles-there-s-no-systemd-forbid-user-logins.servi.patch
No license file was found, but licenses were detected in source scan.

From ec79f8b26d793d2e2ee1705ca86437049e0153c6 Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Zbigniew=20J=C4=99drzejewski-Szmek?= <zbyszek@in.waw.pl>
Date: Fri, 13 Mar 2015 21:24:30 -0500
Subject: [PATCH] man: link to fd.o for dbus stuff

(cherry picked from commit 3b5cfcdb580f5b766ff7fb1a2839bd37d74a98de)
---
man/busctl.xml | 2 +-
man/custom-html.xsl | 13 ++++++++++++
man/systemd-bus-proxyd.xml | 2 +-
man/systemd-bus-proxyd@.service.xml | 2 +-
man/systemd-machine-id-setup.xml | 2 +-
5 files changed, 17 insertions(+), 4 deletions(-)

diff --git a/man/busctl.xml b/man/busctl.xml
index cc1844b0a0..807fc78e8f 100644
--- a/man/busctl.xml
+++ b/man/busctl.xml
@@ -465,7 +465,7 @@ o "/org/freedesktop/systemd1/job/42684"</programlisting>
   <title>See Also</title>

   <para>
-    <citerefentry><refentrytitle>dbus-daemon</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+
     <citerefentry project='dbus'><refentrytitle>dbus-daemon</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <ulink url="http://freedesktop.org/wiki/Software/dbus">D-Bus</ulink>,
     <ulink url="https://code.google.com/p/d-bus/">kdbus</ulink>,
     <citerefentry><refentrytitle>sd-bus</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
diff --git a/man/custom-html.xsl b/man/custom-html.xsl
index 32299db710..706b95a1c4 100644
--- a/man/custom-html.xsl
+++ b/man/custom-html.xsl
@@ -91,6 +91,19 @@
  <xsl:call-template name="inline.charseq"/>
</xsl:template>

```
+<xsl:template match="citerefentry[@project='dbus']">
+  <a>
+    <xsl:attribute name="href">
+      <xsl:text>http://dbus.freedesktop.org/doc/</xsl:text>
+      <xsl:value-of select="refentrytitle"/>
+      <xsl:text>.</xsl:text>
+      <xsl:value-of select="manvolnum"/>
+      <xsl:text>.html</xsl:text>
+    </xsl:attribute>
+    <xsl:call-template name="inline.charseq"/>
+  </a>
+</xsl:template>
+
 <xsl:template match="refsect1/title|refsect1/info/title">
  <!-- the ID is output in the block.object call for refsect1 -->
  <h2>
diff --git a/man/systemd-bus-proxyd.xml b/man/systemd-bus-proxyd.xml
index 2c7764047b..e0efe99854 100644
--- a/man/systemd-bus-proxyd.xml
+++ b/man/systemd-bus-proxyd.xml
@@ -101,7 +101,7 @@ along with systemd; If not, see <http://www.gnu.org/licenses/>.
    <title>See Also</title>

    <para>
-     <citerefentry><refentrytitle>dbus-daemon</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+     <citerefentry project='dbus'><refentrytitle>dbus-
daemon</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <ulink url="http://freedesktop.org/wiki/Software/dbus">D-Bus</ulink>,
      <ulink url="https://code.google.com/p/d-bus/">kdbus</ulink>
    </para>
diff --git a/man/systemd-bus-proxyd@.service.xml b/man/systemd-bus-proxyd@.service.xml
index 141b43f6d9..dc4f07ff1b 100644
--- a/man/systemd-bus-proxyd@.service.xml
+++ b/man/systemd-bus-proxyd@.service.xml
@@
 -73,7 +73,7 @@

    <para>
      <citerefentry><refentrytitle>systemd-bus-proxyd</refentrytitle><manvolnum>8</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>dbus-daemon</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+     <citerefentry project='dbus'><refentrytitle>dbus-
daemon</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
      <ulink url="http://freedesktop.org/wiki/Software/dbus">D-Bus</ulink>,
      <ulink url="https://code.google.com/p/d-bus/">kdbus</ulink>
    </para>
diff --git a/man/systemd-machine-id-setup.xml b/man/systemd-machine-id-setup.xml
index 22bad3e5f4..182717f524 100644
```

```
--- a/man/systemd-machine-id-setup.xml
+++ b/man/systemd-machine-id-setup.xml
@@ -122,7 +122,7 @@
   <para>
     <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>machine-id</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
-     <citerefentry><refentrytitle>dbus-uuidgen</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+
     <citerefentry project='dbus'><refentrytitle>dbus-
uuidgen</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd-firstboot</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   </para>
 </refsect1>
```

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0103-man-link-to-fd.o-for-dbus-stuff.patch
No license file was found, but licenses were detected in source scan.

From fff80c5a2aba519d1c58a1bfc7c0fa96b1e4c30c Mon Sep 17 00:00:00 2001
From: Lukas Nykryn <lnykryn@redhat.com>
Date: Wed, 19 Nov 2014 12:17:19 +0100
Subject: [PATCH] Revert "readahead: wipe out readahead"

This reverts commit d6bc8348d5be8576a475ac8ced2b0146e60fb71f.

Conflicts:
 units/systemd-firstboot.service.in

Conflicts:
 man/sd-daemon.xml
 man/sd-login.xml
 man/systemd-notify.xml
 src/notify/notify.c

Makefile-man.am | 31 +
Makefile.am | 54 +-
configure.ac | 9 +
man/sd-daemon.xml | 1 +
man/sd-login.xml | 1 +
man/sd-readahead.xml | 117 ++++
man/sd_readahead.xml | 178 +++++
man/systemd-notify.xml | 11 +
man/systemd-readahead-replay.service.xml | 203 ++++++
po/POTFILES.skip
| 1 +
shell-completion/zsh/_systemd | 3 +-
src/cryptsetup/cryptsetup-generator.c | 2 +-

```
src/gpt-auto-generator/gpt-auto-generator.c  |   1 +
src/notify/notify.c                          |  20 +-
src/readahead/Makefile                       |   1 +
src/readahead/readahead-analyze.c            | 146 ++++
src/readahead/readahead-collect.c            | 650 ++++++++++++++++++++
src/readahead/readahead-common.c             | 398 ++++++++++
src/readahead/readahead-common.h             |  61 ++
src/readahead/readahead-replay.c             | 281 ++++++++
src/readahead/readahead.c                    | 163 +++++
src/readahead/sd-readahead.c                 |  89 +++
src/readahead/test-ssd.c                     |  41 ++
src/systemd/sd-readahead.h                   |  73 ++
system-preset/90-systemd.preset              |   1 +
units/.gitignore                             |   3 +
units/ldconfig.service
                                             |   2 +-
units/quotaon.service.in                     |   2 +-
units/system-update.target                   |   2 +-
units/systemd-backlight@.service.in          |   2 +-
units/systemd-binfmt.service.in              |   2 +-
units/systemd-firstboot.service.in           |   2 +-
units/systemd-fsck-root.service.in           |   1 +
units/systemd-fsck@.service.in               |   2 +-
units/systemd-hwdb-update.service.in         |   2 +-
.../systemd-journal-catalog-update.service.in |   2 +-
units/systemd-modules-load.service.in        |   1 +
units/systemd-quotacheck.service.in          |   2 +-
units/systemd-random-seed.service.in         |   2 +-
units/systemd-readahead-collect.service.in   |  28 +
units/systemd-readahead-done.service.in      |  22 +
units/systemd-readahead-done.timer           |  22 +
units/systemd-readahead-drop.service         |  19 +
units/systemd-readahead-replay.service.in    |  26 +
units/systemd-remount-fs.service.in
                                             |   2 +-
units/systemd-rfkill@.service.in             |   2 +-
units/systemd-sysctl.service.in              |   1 +
units/systemd-sysusers.service.in            |   2 +-
units/systemd-tmpfiles-clean.service.in      |   2 +-
units/systemd-tmpfiles-setup-dev.service.in  |   2 +-
units/systemd-tmpfiles-setup.service.in      |   2 +-
units/systemd-update-done.service.in         |   2 +-
units/systemd-update-utmp.service.in         |   2 +-
units/systemd-vconsole-setup.service.in      |   1 +
54 files changed, 2675 insertions(+), 23 deletions(-)
create mode 100644 man/sd-readahead.xml
create mode 100644 man/sd_readahead.xml
create mode 100644 man/systemd-readahead-replay.service.xml
```

```
create mode 120000 src/readahead/Makefile
create mode 100644 src/readahead/readahead-analyze.c
create mode 100644 src/readahead/readahead-collect.c
create mode 100644 src/readahead/readahead-common.c
create mode 100644 src/readahead/readahead-common.h
create mode
 100644 src/readahead/readahead-replay.c
create mode 100644 src/readahead/readahead.c
create mode 100644 src/readahead/sd-readahead.c
create mode 100644 src/readahead/test-ssd.c
create mode 100644 src/systemd/sd-readahead.h
create mode 100644 units/systemd-readahead-collect.service.in
create mode 100644 units/systemd-readahead-done.service.in
create mode 100644 units/systemd-readahead-done.timer
create mode 100644 units/systemd-readahead-drop.service
create mode 100644 units/systemd-readahead-replay.service.in

diff --git a/Makefile-man.am b/Makefile-man.am
index d0fb9aa1ae..ac6f69af70 100644
--- a/Makefile-man.am
+++ b/Makefile-man.am
@@ -1234,6 +1234,34 @@ man/systemd-random-seed.html: man/systemd-random-seed.service.html

endif

+if ENABLE_READAHEAD
+MANPAGES += \
+ man/sd-readahead.3 \
+ man/sd_readahead.3 \
+ man/systemd-readahead-replay.service.8
+MANPAGES_ALIAS += \
+ man/systemd-readahead-collect.service.8 \
+ man/systemd-readahead-done.service.8 \
+ man/systemd-readahead-done.timer.8
 \
+ man/systemd-readahead.8
+man/systemd-readahead-collect.service.8: man/systemd-readahead-replay.service.8
+man/systemd-readahead-done.service.8: man/systemd-readahead-replay.service.8
+man/systemd-readahead-done.timer.8: man/systemd-readahead-replay.service.8
+man/systemd-readahead.8: man/systemd-readahead-replay.service.8
+man/systemd-readahead-collect.service.html: man/systemd-readahead-replay.service.html
+ $(html-alias)
+
+man/systemd-readahead-done.service.html: man/systemd-readahead-replay.service.html
+ $(html-alias)
+
+man/systemd-readahead-done.timer.html: man/systemd-readahead-replay.service.html
+ $(html-alias)
```

```
+
+man/systemd-readahead.html: man/systemd-readahead-replay.service.html
+ $(html-alias)
+
+endif
+
if ENABLE_RESOLVED
MANPAGES += \
 man/resolved.conf.5 \
@@ -1660,6 +1688,7 @@ EXTRA_DIST += \
 man/sd-id128.xml \
 man/sd-journal.xml \
 man/sd-login.xml \
+ man/sd-readahead.xml \
 man/sd_booted.xml \
 man/sd_bus_creds_get_pid.xml \
 man/sd_bus_creds_new_from_pid.xml
 \
@@ -1707,6 +1736,7 @@ EXTRA_DIST += \
 man/sd_machine_get_class.xml \
 man/sd_notify.xml \
 man/sd_pid_get_session.xml \
+ man/sd_readahead.xml \
 man/sd_seat_get_active.xml \
 man/sd_session_is_active.xml \
 man/sd_uid_get_state.xml \
@@ -1766,6 +1796,7 @@ EXTRA_DIST += \
 man/systemd-path.xml \
 man/systemd-quotacheck.service.xml \
 man/systemd-random-seed.service.xml \
+ man/systemd-readahead-replay.service.xml \
 man/systemd-remount-fs.service.xml \
 man/systemd-resolved.service.xml \
 man/systemd-rfkill@.service.xml \
diff --git a/Makefile.am b/Makefile.am
index 70e4fbc6d4..b0e4b5a42a 100644
--- a/Makefile.am
+++ b/Makefile.am
@@ -2603,7 +2603,8 @@ systemctl_LDADD = \

# ------------------------------------------------------------------------------
systemd_notify_SOURCES = \
- src/notify/notify.c
+ src/notify/notify.c \
+ src/readahead/sd-readahead.c

systemd_notify_LDADD = \
 libsystemd-internal.la \
```

```
@@ -4735,6 +4736,57 @@ EXTRA_DIST
 += \
 src/vconsole/90-vconsole.rules.in \
 units/systemd-vconsole-setup.service.in

+# ----------------------------------------------------------------------
+if ENABLE_READAHEAD
+systemd_readahead_SOURCES = \
+ src/readahead/readahead.c \
+ src/readahead/readahead-collect.c \
+ src/readahead/readahead-replay.c \
+ src/readahead/readahead-analyze.c \
+ src/readahead/readahead-common.c \
+ src/readahead/readahead-common.h
+
+systemd_readahead_LDADD = \
+ libsystemd-internal.la \
+ libudev-internal.la \
+ libsystemd-shared.la
+
+dist_doc_DATA += \
+ src/readahead/sd-readahead.c \
+ src/systemd/sd-readahead.h
+
+rootlibexec_PROGRAMS += \
+ systemd-readahead
+
+dist_systemunit_DATA += \
+ units/systemd-readahead-drop.service \
+ units/systemd-readahead-done.timer
+
+nodist_systemunit_DATA += \
+ units/systemd-readahead-collect.service \
+ units/systemd-readahead-replay.service \
+ units/systemd-readahead-done.service
+
+manual_tests += \
+ test-ssd
+
+test_ssd_SOURCES = \
+ src/readahead/test-ssd.c
 \
+ src/readahead/readahead-common.c \
+ src/readahead/readahead-common.h
+
+test_ssd_LDADD = \
+ libsystemd-internal.la \
+ libudev-internal.la \
```

```
+ libsystemd-shared.la
+
+endif
+
+EXTRA_DIST += \
+ units/systemd-readahead-collect.service.in \
+ units/systemd-readahead-replay.service.in \
+ units/systemd-readahead-done.service.in
+
# ---------------------------------------------------------------------------
if ENABLE_BOOTCHART
systemd_bootchart_SOURCES = \
diff --git a/configure.ac b/configure.ac
index 3f50887a8d..f701bcf716 100644
--- a/configure.ac
+++ b/configure.ac
@@ -930,6 +930,14 @@ if test "x$enable_vconsole" != "xno"; then
fi
AM_CONDITIONAL(ENABLE_VCONSOLE, [test "$have_vconsole" = "yes"])

+# ---------------------------------------------------------------------------
+have_readahead=no
+AC_ARG_ENABLE(readahead, AS_HELP_STRING([--disable-readahead], [disable readahead tools]))
+if test "x$enable_readahead" != "xno"; then
+        have_readahead=yes
+fi
+AM_CONDITIONAL(ENABLE_READAHEAD,
+ [test "$have_readahead" = "yes"])
+
# ---------------------------------------------------------------------------
have_bootchart=no
AC_ARG_ENABLE(bootchart, AS_HELP_STRING([--disable-bootchart], [disable bootchart tool]))
@@ -1474,6 +1482,7 @@ AC_MSG_RESULT([
        ELFUTILS:               ${have_elfutils}
        binfmt:                 ${have_binfmt}
        vconsole:               ${have_vconsole}
+       readahead:              ${have_readahead}
        bootchart:              ${have_bootchart}
        quotacheck:             ${have_quotacheck}
        tmpfiles:               ${have_tmpfiles}
diff --git a/man/sd-daemon.xml b/man/sd-daemon.xml
index b7ba363656..b12abe2dc8 100644
--- a/man/sd-daemon.xml
+++ b/man/sd-daemon.xml
@@ -137,6 +137,7 @@
     <citerefentry><refentrytitle>systemd.service</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
     <citerefentry><refentrytitle>systemd.socket</refentrytitle><manvolnum>5</manvolnum></citerefentry>,
```

```
      <citerefentry project='man-
pages'><refentrytitle>fprintf</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
+      <citerefentry><refentrytitle>sd-readahead</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
     <citerefentry project='die-net'><refentrytitle>pkg-
config</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   </para>
  </refsect1>
diff --git a/man/sd-login.xml b/man/sd-login.xml
index 328f71164d..abcdb99f6f 100644
--- a/man/sd-login.xml
+++ b/man/sd-login.xml
@@ -128,6 +128,7 @@
     <citerefentry><refentrytitle>sd_get_seats</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
<citerefentry><refentrytitle>sd_login_monitor_new</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
   <citerefentry><refentrytitle>sd-daemon</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
+      <citerefentry><refentrytitle>sd-readahead</refentrytitle><manvolnum>3</manvolnum></citerefentry>,

   <citerefentry project='die-net'><refentrytitle>pkg-
config</refentrytitle><manvolnum>1</manvolnum></citerefentry>
   </para>
  </refsect1>
diff --git a/man/sd-readahead.xml b/man/sd-readahead.xml
new file mode 100644
index 0000000000..bcc46b24d8
--- /dev/null
+++ b/man/sd-readahead.xml
@@ -0,0 +1,117 @@
+<?xml version='1.0'?> <!--*-nxml-*-->
+<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook XML V4.2//EN"
+       "http://www.oasis-open.org/docbook/xml/4.2/docbookx.dtd">
+
+<!--
+  This file is part of systemd.
+
+  Copyright 2010 Lennart Poettering
+
+  systemd is free software; you can redistribute it and/or modify it
+  under the terms of the GNU Lesser General Public License as published by
+  the Free Software Foundation; either version 2.1 of the License, or
+  (at your option) any later version.
+
+  systemd is distributed in the hope that it will be useful, but
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+  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
 See the GNU
+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
```

```
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+-->
+
+<refentry id="sd-readahead" conditional='ENABLE_READAHEAD'>
+
+      <refentryinfo>
+            <title>sd-readahead</title>
+            <productname>systemd</productname>
+
+            <authorgroup>
+                  <author>
+                        <contrib>Developer</contrib>
+                        <firstname>Lennart</firstname>
+                        <surname>Poettering</surname>
+                        <email>lennart@poettering.net</email>
+                  </author>
+            </authorgroup>
+      </refentryinfo>
+
+      <refmeta>
+            <refentrytitle>sd-readahead</refentrytitle>
+            <manvolnum>3</manvolnum>
+      </refmeta>
+
+      <refnamediv>
+
     <refname>sd-readahead</refname>
+            <refpurpose>Reference implementation of APIs for
+            controlling boot-time read-ahead</refpurpose>
+      </refnamediv>
+
+      <refsynopsisdiv>
+            <funcsynopsis>
+                  <funcsynopsisinfo>#include "sd-readahead.h"</funcsynopsisinfo>
+            </funcsynopsis>
+      </refsynopsisdiv>
+
+      <refsect1>
+            <title>Description</title>
+
+            <para><filename>sd-readahead.c</filename> and
+            <filename>sd-readahead.h</filename> provide a
+            reference implementation for APIs for controlling boot-time
+            read-ahead, as implemented by the read-ahead subsystem
+            of the
+            <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+            init system.</para>
+
```

```
+            <para>See
+            <citerefentry><refentrytitle>sd_readahead</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+
          for more information about the function
+            implemented.</para>
+        </refsect1>
+
+        <refsect1>
+            <title>Notes</title>
+
+            <para>This interface is provided by the reference
+            implementation of APIs for controlling boot-time
+            read-ahead and distributed with the systemd
+            package. The algorithms it implements are simple, and
+            can easily be reimplemented in daemons if it is
+            important to support this interface without using the
+            reference implementation. See the respective function
+            man pages for details.</para>
+
+            <para>In addition, for details about the algorithms,
+            check the liberally licensed reference implementation
+            sources:
+            <ulink url="http://cgit.freedesktop.org/systemd/systemd/plain/src/readahead/sd-readahead.c"/>
+
          and <ulink url="http://cgit.freedesktop.org/systemd/systemd/plain/src/systemd/sd-readahead.h"/></para>
+
+            <para>These APIs are implemented in the reference
+            implementation's drop-in
+            <filename>sd-readahead.c</filename> and
+            <filename>sd-readahead.h</filename> files. It is
+            recommended that applications consuming these APIs copy
+            the implementation into their source tree, either
+            verbatim or in excerpts. These interfaces are
+            currently not available in a dynamic library.</para>
+
+            <para>The functions provided by this interface become
+            NOPs when -DDISABLE_SYSTEMD is set during
+            compilation. In addition, if
+            <filename>sd-readhead.c</filename> is compiled on
+            non-Linux systems it becomes NOPs.</para>
+        </refsect1>
+
+        <refsect1>
+
          <title>See Also</title>
+            <para>
+                <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+
```

```
<citerefentry><refentrytitle>sd_readahead</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
+                       <citerefentry><refentrytitle>sd-
daemon</refentrytitle><manvolnum>3</manvolnum></citerefentry>
+               </para>
+       </refsect1>
+
+</refentry>
diff --git a/man/sd_readahead.xml b/man/sd_readahead.xml
new file mode 100644
index 0000000000..98272997cb
--- /dev/null
+++ b/man/sd_readahead.xml
@@ -0,0 +1,178 @@
+<?xml version='1.0'?> <!--*-nxml-*-->
+<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook XML V4.2//EN"
+       "http://www.oasis-open.org/docbook/xml/4.2/docbookx.dtd">
+
+<!--
+  This file is part of systemd.
+
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+  under the terms of
 the GNU Lesser General Public License as published by
+  the Free Software Foundation; either version 2.1 of the License, or
+  (at your option) any later version.
+
+  systemd is distributed in the hope that it will be useful, but
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+  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+-->
+
+<refentry id="sd_readahead" conditional='ENABLE_READAHEAD'>
+
+       <refentryinfo>
+               <title>sd_readahead</title>
+               <productname>systemd</productname>
+
+               <authorgroup>
+                       <author>
+                               <contrib>Developer</contrib>
+                               <firstname>Lennart</firstname>
+                               <surname>Poettering</surname>
```

```
+
                <email>lennart@poettering.net</email>
+            </author>
+        </authorgroup>
+    </refentryinfo>
+
+    <refmeta>
+        <refentrytitle>sd_readahead</refentrytitle>
+        <manvolnum>3</manvolnum>
+    </refmeta>
+
+    <refnamediv>
+        <refname>sd_readahead</refname>
+        <refpurpose>Control ongoing disk boot-time read-ahead operations</refpurpose>
+    </refnamediv>
+
+    <refsynopsisdiv>
+        <funcsynopsis>
+            <funcsynopsisinfo>#include "sd-readahead.h"</funcsynopsisinfo>
+
+            <funcprototype>
+                <funcdef>int <function>sd_readahead</function></funcdef>
+                <paramdef>const char *<parameter>action</parameter></paramdef>
+            </funcprototype>
+        </funcsynopsis>
+    </refsynopsisdiv>
+
+    <refsect1>
+
        <title>Description</title>
+        <para><function>sd_readahead()</function> may be
+        called by programs involved with early boot-up to
+        control ongoing boot-time disk read-ahead operations. It may be
+        used to terminate read-ahead operations in case an
+        uncommon disk access pattern is to be expected and
+        hence read-ahead replay or collection is unlikely to
+        have the desired speed-up effect on the current or
+        future boot-ups.</para>
+
+        <para>The <parameter>action</parameter> should be one
+        of the following strings:</para>
+
+        <variablelist>
+            <varlistentry>
+                <term>cancel</term>
+
+                <listitem><para>Terminates read-ahead
+                data collection, and drops all
```

```
+                       read-ahead
 data collected during this
+                       boot-up.</para></listitem>
+                </varlistentry>
+
+                <varlistentry>
+                       <term>done</term>
+
+                       <listitem><para>Terminates read-ahead
+                       data collection, but keeps all
+                       read-ahead data collected during this
+                       boot-up around for use during
+                       subsequent boot-ups.</para></listitem>
+                </varlistentry>
+
+                <varlistentry>
+                       <term>noreplay</term>
+
+                       <listitem><para>Terminates read-ahead
+                       replay.</para></listitem>
+                </varlistentry>
+
+        </variablelist>
+
+    </refsect1>
+
+    <refsect1>
+        <title>Return Value</title>
+
+
            <para>On failure, these calls return a negative
+         errno-style error code. It is generally recommended to
+         ignore the return value of this call.</para>
+    </refsect1>
+
+    <refsect1>
+        <title>Notes</title>
+
+        <para>This function is provided by the reference
+        implementation of APIs for controlling boot-time
+        read-ahead and distributed with the systemd
+        package. The algorithm it implements is simple, and
+        can easily be reimplemented in daemons if it is
+        important to support this interface without using the
+        reference implementation.</para>
+
+        <para>Internally, this function creates a file in
+        <filename>/run/systemd/readahead/</filename> which is
```

```
+             then used as flag file to notify the read-ahead
+             subsystem.</para>
+
+
 <para>For details about the algorithm check the
+             liberally licensed reference implementation sources:
+             <ulink url="http://cgit.freedesktop.org/systemd/systemd/plain/src/readahead/sd-readahead.c"/>
+             and <ulink
+             url="http://cgit.freedesktop.org/systemd/systemd/plain/src/systemd/sd-readahead.h"/></para>
+
+             <para><function>sd_readahead()</function> is
+             implemented in the reference implementation's drop-in
+             <filename>sd-readahead.c</filename> and
+             <filename>sd-readahead.h</filename> files. It is
+             recommended that applications consuming this API copy
+             the implementation into their source tree. For more
+             details about the reference implementation, see
+             <citerefentry><refentrytitle>sd-
readahead</refentrytitle><manvolnum>3</manvolnum></citerefentry></para>
+
+             <para>If -DDISABLE_SYSTEMD is set
 during compilation,
+             this function will always return 0 and otherwise
+             become a NOP.</para>
+        </refsect1>
+
+        <refsect1>
+             <title>Examples</title>
+
+             <example>
+                  <title>Cancelling all read-ahead operations</title>
+
+                  <para>During boots where SELinux has to
+                  relabel the file system hierarchy, it will
+                  create a large amount of disk accesses that
+                  are not necessary during normal boots. Hence
+                  it is a good idea to disable both read-ahead replay and read-ahead collection.
+                  </para>
+
+                  <programlisting>sd_readahead("cancel");
+sd_readahead("noreplay");</programlisting>
+             </example>
+
+        </refsect1>
+
+        <refsect1>
+             <title>See Also</title>
+             <para>
```

```
+
  <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>,
+                   <citerefentry><refentrytitle>sd-
readahead</refentrytitle><manvolnum>3</manvolnum></citerefentry>,
+                   <citerefentry><refentrytitle>daemon</refentrytitle><manvolnum>7</manvolnum></citerefentry>
+             </para>
+       </refsect1>
+
+</refentry>
diff --git a/man/systemd-notify.xml b/man/systemd-notify.xml
index 06d5ae5319..46ede1ab8f 100644
--- a/man/systemd-notify.xml
+++ b/man/systemd-notify.xml
@@ -127,6 +127,17 @@
<citerefentry><refentrytitle>sd_booted</refentrytitle><manvolnum>3</manvolnum></citerefentry>.</para></listit
em>
     </varlistentry>

+     <varlistentry>
+       <term><option>--readahead=</option></term>
+
+       <listitem><para>Controls disk
+       read-ahead operations. The argument
+       must be a string, and either "cancel",
+       "done" or "noreplay". For details
+       about the semantics of
 this option see
+
<citerefentry><refentrytitle>sd_readahead</refentrytitle><manvolnum>3</manvolnum></citerefentry>.</para></li
stitem>
+       </varlistentry>
+
     <xi:include href="standard-options.xml" xpointer="help" />
     <xi:include href="standard-options.xml" xpointer="version" />
   </variablelist>
diff --git a/man/systemd-readahead-replay.service.xml b/man/systemd-readahead-replay.service.xml
new file mode 100644
index 0000000000..669fe78942
--- /dev/null
+++ b/man/systemd-readahead-replay.service.xml
@@ -0,0 +1,203 @@
+<?xml version='1.0'?> <!--*-nxml-*-->
+<!DOCTYPE refentry PUBLIC "-//OASIS//DTD DocBook XML V4.2//EN"
+       "http://www.oasis-open.org/docbook/xml/4.2/docbookx.dtd">
+
+<!--
+  This file is part of systemd.
+
```

```
+  Copyright 2010 Lennart Poettering
+
+  systemd is free software; you can redistribute it and/or modify it
+  under the terms of the GNU Lesser General Public License as published by
+  the Free Software Foundation; either version 2.1
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+  (at your option) any later version.
+
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+  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+-->
+
+<refentry id="systemd-readahead-replay.service" conditional='ENABLE_READAHEAD'
+        xmlns:xi="http://www.w3.org/2001/XInclude">
+
+      <refentryinfo>
+            <title>systemd-readahead-replay.service</title>
+            <productname>systemd</productname>
+
+            <authorgroup>
+                  <author>
+                        <contrib>Developer</contrib>
+                        <firstname>Lennart</firstname>
+                        <surname>Poettering</surname>
+
                   <email>lennart@poettering.net</email>
+                  </author>
+            </authorgroup>
+      </refentryinfo>
+
+      <refmeta>
+            <refentrytitle>systemd-readahead-replay.service</refentrytitle>
+            <manvolnum>8</manvolnum>
+      </refmeta>
+
+      <refnamediv>
+            <refname>systemd-readahead-replay.service</refname>
+            <refname>systemd-readahead-collect.service</refname>
+            <refname>systemd-readahead-done.service</refname>
+            <refname>systemd-readahead-done.timer</refname>
+            <refname>systemd-readahead</refname>
+            <refpurpose>Disk read ahead logic</refpurpose>
+      </refnamediv>
```

```
+
+       <refsynopsisdiv>
+            <para><filename>systemd-readahead-replay.service</filename></para>
+            <para><filename>systemd-readahead-collect.service</filename></para>
+            <para><filename>systemd-readahead-done.service</filename></para>
+
           <para><filename>systemd-readahead-done.timer</filename></para>
+            <cmdsynopsis>
+                 <command>/usr/lib/systemd/systemd-readahead/systemd-readahead</command>
+                 <arg choice="opt" rep="repeat">OPTIONS</arg>
+                 <arg choice="plain">COMMAND</arg>
+                 <arg choice="opt">DIRECTORY | FILE</arg>
+            </cmdsynopsis>
+       </refsynopsisdiv>
+
+       <refsect1>
+            <title>Description</title>
+
+            <para><filename>systemd-readahead-collect.service</filename>
+            is a service that collects disk usage patterns at boot
+            time. <filename>systemd-readahead-replay.service</filename>
+            is a service that replays this access data collected
+            at the subsequent boot. Since disks tend to be
+            magnitudes slower than RAM, this is intended to improve
+
           boot speeds by pre-loading early at boot all data on
+            disk that is known to be read for the complete boot
+            process.</para>
+
+            <para><filename>systemd-readahead-done.service</filename>
+            is executed a short while after boot completed and signals
+            <filename>systemd-readahead-collect.service</filename>
+            to end data collection. On this signal, this service
+            will then sort the collected disk accesses and store
+            information about them in
+            <filename>/.readahead</filename>.</para>
+
+            <para>Normally, both
+            <filename>systemd-readahead-collect.service</filename>
+            and
+            <filename>systemd-readahead-replay.service</filename>
+            are activated at boot so that access patterns from the
+            preceding boot are replayed and new data collected
+            for
 the subsequent boot. However, on read-only media
+            where the collected data cannot be stored, it might
+            be a good idea to disable
+            <filename>systemd-readahead-collect.service</filename>.</para>
```

```
+
+           <para>On rotating media, when replaying disk accesses
+           at early boot,
+           <filename>systemd-readahead-replay.service</filename>
+           will order read requests by their location on disk. On
+           non-rotating media, they will be ordered by their
+           original access timestamp. If the file system supports
+           it,
+           <filename>systemd-readahead-collect.service</filename>
+           will also defragment and rearrange files on disk to
+           optimize subsequent boot times.</para>
+       </refsect1>
+
+       <refsect1>
+           <title>Options</title>
+
+           <para><filename>systemd-readahead</filename> understands
+
            the following options:</para>
+
+           <variablelist>
+               <varlistentry>
+                   <term><option>--files-max=</option></term>
+
+                   <listitem><para>Maximum number of
+                   files to read ahead. Only valid
+                   for thes <command>collect</command>
+                   command.</para></listitem>
+               </varlistentry>
+
+               <varlistentry>
+                   <term><option>--file-size-max=</option></term>
+
+                   <listitem><para>Maximum size of files
+                   in bytes to read ahead. Only valid
+                   for the <command>collect</command>
+                   and <command>replay</command>
+                   commands.</para></listitem>
+               </varlistentry>
+
+
               <varlistentry>
+                   <term><option>--timeout=</option></term>
+
+                   <listitem><para>Maximum time in microseconds
+                   to spend collecting data. Only valid
+                   for the <command>collect</command>
+                   command.</para></listitem>
```

```
+                </varlistentry>
+
+                <xi:include href="standard-options.xml" xpointer="help" />
+                <xi:include href="standard-options.xml" xpointer="version" />
+            </variablelist>
+
+    </refsect1>
+
+    <refsect1>
+            <title>Commands</title>
+
+            <para>The following commands are understood by
+            <filename>systemd-readahead</filename>:</para> <variablelist>
+                <varlistentry>
+                    <term><command>collect
+
   [<replaceable>DIRECTORY</replaceable>]</command></term>
+                    <listitem>
+                        <para>Collect read-ahead data on
+                        early boot. When terminating, it will
+                        write out a pack file to the indicated
+                        directory containing the read-ahead
+                        data. </para>
+                    </listitem>
+                </varlistentry>
+
+                <varlistentry>
+                    <term><command>replay
+                    [<replaceable>DIRECTORY</replaceable>]</command></term>
+                    <listitem>
+                        <para>Perform read-ahead on the
+                        specified directory tree.</para>
+                    </listitem>
+
  </varlistentry>
+
+                <varlistentry>
+                    <term><command>analyze
+                    [<replaceable>FILE</replaceable>]</command></term>
+                    <listitem>
+                        <para>Dumps the content of the
+                        read-ahead pack file to the
+                        terminal. For each file, the
+                        output lists approximately how
+                        much will be read ahead by
+                        the <command>replay</command>
+                        command.</para>
+                    </listitem>
```

```
+                </varlistentry>
+
+            </variablelist>
+        </refsect1>
+
+        <refsect1>
+            <title>See Also</title>
+            <para>
+                <citerefentry><refentrytitle>systemd</refentrytitle><manvolnum>1</manvolnum></citerefentry>
+
            </para>
+        </refsect1>
+
+</refentry>
diff --git a/po/POTFILES.skip b/po/POTFILES.skip
index 51254ec533..b552029b82 100644
--- a/po/POTFILES.skip
+++ b/po/POTFILES.skip
@@ -17,5 +17,6 @@ src/hostname/hostnamed.c
src/locale/localed.c
src/core/org.freedesktop.systemd1.policy.in
src/timedate/timedated.c
+units/systemd-readahead-done.service.in
units/user@.service.in
units/debug-shell.service.in
diff --git a/shell-completion/zsh/_systemd b/shell-completion/zsh/_systemd
index 58b1c7b4e5..06f03bd1e7 100644
--- a/shell-completion/zsh/_systemd
+++ b/shell-completion/zsh/_systemd
@@ -63,7 +63,8 @@ case "$service" in
          '--ready[Inform the init system about service start-up completion.]' \
          '--pid=[Inform the init system about the main PID of the daemon]' \
          '--status=[Send a free-form status string for the daemon to the init systemd]' \
-          '--booted[Returns
 0 if the system was booted up with systemd]'
+          '--booted[Returns 0 if the system was booted up with systemd]' \
+          '--readahead=[Controls disk read-ahead operations]:arguments:(cancel done noreply)'
   ;;
   systemd-tty-ask-password-agent)
     _arguments \
diff --git a/src/cryptsetup/cryptsetup-generator.c b/src/cryptsetup/cryptsetup-generator.c
index 05061c0704..dfbca8754f 100644
--- a/src/cryptsetup/cryptsetup-generator.c
+++ b/src/cryptsetup/cryptsetup-generator.c
@@ -111,7 +111,7 @@ static int create_disk(
            "Conflicts=umount.target\n"
            "BindsTo=dev-mapper-%i.device\n"
            "IgnoreOnIsolate=true\n"
```

```
-               "After=cryptsetup-pre.target\n",
+               "After=systemd-readahead-collect.service systemd-readahead-replay.service cryptsetup-pre.target\n",
                f);

        if (!nofail)
diff --git a/src/gpt-auto-generator/gpt-auto-generator.c b/src/gpt-auto-generator/gpt-auto-generator.c
index
 5c58b58f8a..7d5a6c6508 100644
--- a/src/gpt-auto-generator/gpt-auto-generator.c
+++ b/src/gpt-auto-generator/gpt-auto-generator.c
@@ -133,6 +133,7 @@ static int add_cryptsetup(const char *id, const char *what, bool rw, char **devi
                "Before=umount.target cryptsetup.target\n"
                "After=%s\n"
                "IgnoreOnIsolate=true\n"
+               "After=systemd-readahead-collect.service systemd-readahead-replay.service\n\n"
                "[Service]\n"
                "Type=oneshot\n"
                "RemainAfterExit=yes\n"
diff --git a/src/notify/notify.c b/src/notify/notify.c
index f98075d513..e4a128b0b2 100644
--- a/src/notify/notify.c
+++ b/src/notify/notify.c
@@ -31,6 +31,7 @@
#include "strv.h"
#include "util.h"
#include "log.h"
+#include "sd-readahead.h"
#include "build.h"
#include "env-util.h"

@@ -38,6 +39,7 @@ static bool arg_ready = false;
static pid_t arg_pid = 0;
static const char *arg_status = NULL;
static bool arg_booted
 = false;
+static const char *arg_readahead = NULL;

static void help(void) {
        printf("%s [OPTIONS...] [VARIABLE=VALUE...]\n\n"
@@ -48,6 +50,7 @@ static void help(void) {
               "     --pid[=PID]       Set main pid of daemon\n"
               "     --status=TEXT     Set status text\n"
               "     --booted          Check if the system was booted up with systemd\n",
+               "     --readahead=ACTION Controls read-ahead operations\n",
               program_invocation_short_name);
}

@@ -59,6 +62,7 @@ static int parse_argv(int argc, char *argv[]) {
```

```
            ARG_PID,
            ARG_STATUS,
            ARG_BOOTED,
+             ARG_READAHEAD
      };

      static const struct option options[] = {
@@ -68,6 +72,7 @@ static int parse_argv(int argc, char *argv[]) {
            { "pid",       optional_argument, NULL, ARG_PID       },
            { "status",    required_argument, NULL, ARG_STATUS    },

  { "booted",    no_argument,       NULL, ARG_BOOTED    },
+             { "readahead", required_argument, NULL, ARG_READAHEAD },
            {}
      };

@@ -113,6 +118,10 @@ static int parse_argv(int argc, char *argv[]) {
                  arg_booted = true;
                  break;

+             case ARG_READAHEAD:
+                 arg_readahead = optarg;
+                 break;
+
            case '?':
                  return -EINVAL;

@@ -125,7 +134,8 @@ static int parse_argv(int argc, char *argv[]) {
          !arg_ready &&
          !arg_status &&
          !arg_pid &&
-          !arg_booted) {
+          !arg_booted &&
+          !arg_readahead) {
            help();
            return -EINVAL;
      }
@@ -150,6 +160,14 @@ int main(int argc, char* argv[]) {
      if (arg_booted)
            return sd_booted() <= 0;

+      if (arg_readahead) {
+            r = sd_readahead(arg_readahead);
+
            if (r < 0) {
+                 log_error("Failed to issue read-ahead control command: %s", strerror(-r));
+                 goto finish;
+            }
```

```
+       }
+
        if (arg_ready)
                our_env[i++] = (char*) "READY=1";

diff --git a/src/readahead/Makefile b/src/readahead/Makefile
new file mode 120000
index 0000000000..d0b0e8e008
--- /dev/null
+++ b/src/readahead/Makefile
@@ -0,0 +1 @@
+../Makefile
\ No newline at end of file
diff --git a/src/readahead/readahead-analyze.c b/src/readahead/readahead-analyze.c
new file mode 100644
index 0000000000..76db3cb7e4
--- /dev/null
+++ b/src/readahead/readahead-analyze.c
@@ -0,0 +1,146 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
+/***
+  This file is part of systemd.
+
+  Copyright 2012 Auke Kok <auke-jan.h.kok@intel.com>
+
+  systemd is free software; you can redistribute it and/or modify it
+  under the terms of the GNU Lesser General Public License as published
 by
+  the Free Software Foundation; either version 2.1 of the License, or
+  (at your option) any later version.
+
+  systemd is distributed in the hope that it will be useful, but
+  WITHOUT ANY WARRANTY; without even the implied warranty of
+  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+***/
+
+
+#include <stdio.h>
+#include <stdlib.h>
+#include <stdbool.h>
+#include <unistd.h>
+#include <inttypes.h>
+#include <linux/limits.h>
```

```
+#include <sys/types.h>
+#include <sys/stat.h>
+#include <string.h>
+
+#include "readahead-common.h"
+
+int main_analyze(const char *pack_path) {
+        char line[LINE_MAX];
+        _cleanup_fclose_ FILE *pack = NULL;
+        int a;
+        int missing = 0;
+        size_t tsize = 0;
+
+        if (!pack_path)
+                pack_path
 = "/.readahead";
+
+        pack = fopen(pack_path, "re");
+        if (!pack) {
+                log_error("Pack file missing.");
+                goto fail;
+        }
+
+        if (!fgets(line, sizeof(line), pack)) {
+                log_error("Pack file corrupt.");
+                goto fail;
+        }
+
+        char_array_0(line);
+
+        if (!endswith(line, READAHEAD_PACK_FILE_VERSION)) {
+                log_error("Pack file version incompatible with this parser.");
+                goto fail;
+        }
+
+        if ((a = getc(pack)) == EOF) {
+                log_error("Pack file corrupt.");
+                goto fail;
+        }
+
+        fputs("   pct  sections     size: path\n"
+              "   ===  ========     ====: ====\n", stdout);
+
+        for (;;) {
+                char path[PATH_MAX];
+                struct stat st;
+                uint64_t inode;
+                int pages = 0;
```

```
+               int sections = 0;
+
+               if (!fgets(path,
 sizeof(path), pack))
+                       break; /* done */
+
+               path[strlen(path)-1] = 0;
+
+               if (fread(&inode, sizeof(inode), 1, pack) != 1) {
+                       log_error("Pack file corrupt.");
+                       goto fail;
+               }
+
+               for (;;) {
+                       uint32_t b, c;
+
+                       if (fread(&b, sizeof(b), 1, pack) != 1  ||
+                           fread(&c, sizeof(c), 1, pack) != 1) {
+                               log_error("Pack file corrupt.");
+                               goto fail;
+                       }
+                       if ((b == 0) && (c == 0))
+                               break;
+
+                       /* Uncomment this to get all the chunks separately
+                          printf(" %d: %d %d\n", sections, b, c);
+                        */
+
+                       pages += (c - b);
+                       sections++;
+
 }
+
+               if (stat(path, &st) == 0) {
+                       off_t size;
+
+                       if (sections == 0)
+                               size = st.st_size;
+                       else
+                               size = pages * page_size();
+
+                       tsize += size;
+
+                       printf("  %4jd%% (%2d) %12jd: %s\n",
+                            (intmax_t) (sections && st.st_size ? size * 100 / st.st_size : 100),
+                            sections ? sections : 1,
+                            (intmax_t) size,
+                            path);
```

```
+                } else {
+                        printf("  %4dp (%2d) %12s: %s (MISSING)\n",
+                               sections ? pages : -1,
+                               sections ? sections : 1,
+                               "???",
+                               path);
+                        missing++;
+                }
+
+        }
+
+        printf("\nHOST:
   %s"
+                "TYPE:    %c\n"
+                "MISSING: %d\n"
+                "TOTAL:   %zu\n",
+                line,
+                a,
+                missing,
+                tsize);
+
+        return EXIT_SUCCESS;
+
+fail:
+        return EXIT_FAILURE;
+}
diff --git a/src/readahead/readahead-collect.c b/src/readahead/readahead-collect.c
new file mode 100644
index 0000000000..822a803a41
--- /dev/null
+++ b/src/readahead/readahead-collect.c
@@ -0,0 +1,650 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
+/***
+  This file is part of systemd.
+
+  Copyright 2010 Lennart Poettering
+
+  systemd is free software; you can redistribute it and/or modify it
+  under the terms of the GNU Lesser General Public License as published by
+  the Free Software Foundation; either version 2.1 of the License, or
+  (at your option) any later version.
+
+  systemd is distributed in the hope that it will be useful, but
+  WITHOUT ANY WARRANTY; without even the implied
 warranty of
+  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
```

```
+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+***/
+
+#include <errno.h>
+#include <inttypes.h>
+#include <fcntl.h>
+#include <linux/limits.h>
+#include <stdbool.h>
+#include <stdio.h>
+#include <stdlib.h>
+#include <string.h>
+#include <sys/select.h>
+#include <sys/time.h>
+#include <sys/types.h>
+#include <sys/stat.h>
+#include <unistd.h>
+#include <linux/fanotify.h>
+#include <sys/signalfd.h>
+#include <sys/poll.h>
+#include <sys/mman.h>
+#include <linux/fs.h>
+#include <linux/fiemap.h>
+#include <sys/ioctl.h>
+#include <sys/vfs.h>
+#include <getopt.h>
+#include <sys/inotify.h>
+#include <math.h>
+
+#ifdef HAVE_LINUX_BTRFS_H
+#include <linux/btrfs.h>
+#endif
+
+#ifdef HAVE_FANOTIFY_INIT
+#include <sys/fanotify.h>
+#endif
+
+#include "systemd/sd-daemon.h"
+
+#include
 "missing.h"
+#include "util.h"
+#include "set.h"
+#include "ioprio.h"
+#include "readahead-common.h"
+#include "virt.h"
```

```
+
+/* fixme:
+ *
+ * - detect ssd on btrfs/lvm...
+ * - read ahead directories
+ * - gzip?
+ * - remount rw?
+ * - handle files where nothing is in mincore
+ * - does ioprio_set work with fadvise()?
+ */
+
+static ReadaheadShared *shared = NULL;
+static usec_t starttime;
+
+/* Avoid collisions with the NULL pointer */
+#define SECTOR_TO_PTR(s) ULONG_TO_PTR((s)+1)
+#define PTR_TO_SECTOR(p) (PTR_TO_ULONG(p)-1)
+
+static int btrfs_defrag(int fd) {
+        struct btrfs_ioctl_vol_args data = { .fd = fd };
+
+        return ioctl(fd, BTRFS_IOC_DEFRAG, &data);
+}
+
+static int pack_file(FILE *pack, const char *fn, bool on_btrfs) {
+        struct stat st;
+        void *start = MAP_FAILED;
+        uint8_t *vec;
+        uint32_t b, c;
+        uint64_t inode;
+        size_t l, pages;
+        bool mapped;
+        int r = 0, fd = -1, k;
+
+        assert(pack);
+
       assert(fn);
+
+        fd = open(fn, O_RDONLY|O_CLOEXEC|O_NOATIME|O_NOCTTY|O_NOFOLLOW);
+        if (fd < 0) {
+
+                if (errno == ENOENT)
+                        return 0;
+
+                if (errno == EPERM || errno == EACCES)
+                        return 0;
+
+                log_warning("open(%s) failed: %m", fn);
```

```
+               r = -errno;
+               goto finish;
+       }
+
+       k = file_verify(fd, fn, arg_file_size_max, &st);
+       if (k <= 0) {
+               r = k;
+               goto finish;
+       }
+
+       if (on_btrfs)
+               btrfs_defrag(fd);
+
+       l = PAGE_ALIGN(st.st_size);
+       start = mmap(NULL, l, PROT_READ, MAP_SHARED, fd, 0);
+       if (start == MAP_FAILED) {
+               log_warning("mmap(%s) failed: %m", fn);
+               r = -errno;
+               goto finish;
+       }
+
+       pages = l / page_size();
+       vec = alloca0(pages);
+       if (mincore(start, l, vec) < 0)
 {
+               log_warning("mincore(%s) failed: %m", fn);
+               r = -errno;
+               goto finish;
+       }
+
+       fputs(fn, pack);
+       fputc('\n', pack);
+
+       /* Store the inode, so that we notice when the file is deleted */
+       inode = (uint64_t) st.st_ino;
+       fwrite(&inode, sizeof(inode), 1, pack);
+
+       mapped = false;
+       for (c = 0; c < pages; c++) {
+               bool new_mapped = !!(vec[c] & 1);
+
+               if (!mapped && new_mapped)
+                       b = c;
+               else if (mapped && !new_mapped) {
+                       fwrite(&b, sizeof(b), 1, pack);
+                       fwrite(&c, sizeof(c), 1, pack);
+
+                       log_debug("%s: page %u to %u", fn, b, c);
```

```
+               }
+
+               mapped = new_mapped;
+       }
+
+       /* We don't write any range data if we should read the entire file */
+       if (mapped && b > 0) {
+               fwrite(&b, sizeof(b),
 1, pack);
+               fwrite(&c, sizeof(c), 1, pack);
+
+               log_debug("%s: page %u to %u", fn, b, c);
+       }
+
+       /* End marker */
+       b = 0;
+       fwrite(&b, sizeof(b), 1, pack);
+       fwrite(&b, sizeof(b), 1, pack);
+
+finish:
+       if (start != MAP_FAILED)
+               munmap(start, l);
+
+       safe_close(fd);
+
+       return r;
+}
+
+static unsigned long fd_first_block(int fd) {
+       struct {
+               struct fiemap fiemap;
+               struct fiemap_extent extent;
+       } data = {
+               .fiemap.fm_length = ~0ULL,
+               .fiemap.fm_extent_count = 1,
+       };
+
+       if (ioctl(fd, FS_IOC_FIEMAP, &data) < 0)
+               return 0;
+
+       if (data.fiemap.fm_mapped_extents <= 0)
+               return 0;
+
+       if (data.fiemap.fm_extents[0].fe_flags & FIEMAP_EXTENT_UNKNOWN)
+               return 0;
+
+       return (unsigned long) data.fiemap.fm_extents[0].fe_physical;
+}
```

```
+
+struct
 item {
+       const char *path;
+       unsigned long block;
+       unsigned long bin;
+};
+
+static int qsort_compare(const void *a, const void *b) {
+       const struct item *i, *j;
+
+       i = a;
+       j = b;
+
+       /* sort by bin first */
+       if (i->bin < j->bin)
+               return -1;
+       if (i->bin > j->bin)
+               return 1;
+
+       /* then sort by sector */
+       if (i->block < j->block)
+               return -1;
+       if (i->block > j->block)
+               return 1;
+
+       return strcmp(i->path, j->path);
+}
+
+static int collect(const char *root) {
+       enum {
+               FD_FANOTIFY,  /* Get the actual fs events */
+               FD_SIGNAL,
+               FD_INOTIFY,   /* We get notifications to quit early via this fd */
+               _FD_MAX
+       };
+       struct pollfd pollfd[_FD_MAX] = {};
+       int fanotify_fd = -1, signal_fd = -1, inotify_fd = -1, r = 0;
+       pid_t my_pid;
+
      Hashmap *files = NULL;
+       Iterator i;
+       char *p, *q;
+       sigset_t mask;
+       FILE *pack = NULL;
+       char *pack_fn_new = NULL, *pack_fn = NULL;
+       bool on_ssd, on_btrfs;
+       struct statfs sfs;
```

```
+       usec_t not_after;
+       uint64_t previous_block_readahead;
+       bool previous_block_readahead_set = false;
+
+       assert(root);
+
+       if (asprintf(&pack_fn, "%s/.readahead", root) < 0) {
+               r = log_oom();
+               goto finish;
+       }
+
+       starttime = now(CLOCK_MONOTONIC);
+
+       /* If there's no pack file yet we lower the kernel readahead
+        * so that mincore() is accurate. If there is a pack file
+        * already we assume it is accurate enough so that kernel
+        * readahead is never triggered. */
+       previous_block_readahead_set =
+               access(pack_fn, F_OK) < 0 &&
+               block_get_readahead(root, &previous_block_readahead) >= 0 &&
+
    block_set_readahead(root, 8*1024) >= 0;
+
+       if (ioprio_set(IOPRIO_WHO_PROCESS, getpid(), IOPRIO_PRIO_VALUE(IOPRIO_CLASS_IDLE, 0)) <
0)
+               log_warning("Failed to set IDLE IO priority class: %m");
+
+       assert_se(sigemptyset(&mask) == 0);
+       sigset_add_many(&mask, SIGINT, SIGTERM, -1);
+       assert_se(sigprocmask(SIG_SETMASK, &mask, NULL) == 0);
+
+       if ((signal_fd = signalfd(-1, &mask, SFD_NONBLOCK|SFD_CLOEXEC)) < 0) {
+               log_error("signalfd(): %m");
+               r = -errno;
+               goto finish;
+       }
+
+       files = hashmap_new(&string_hash_ops);
+       if (!files) {
+               log_error("Failed to allocate set.");
+               r = -ENOMEM;
+               goto finish;
+       }
+
+       fanotify_fd = fanotify_init(FAN_CLOEXEC|FAN_NONBLOCK,
O_RDONLY|O_LARGEFILE|O_CLOEXEC|O_NOATIME);
+       if (fanotify_fd < 0)  {
+               log_error("Failed to create fanotify object: %m");
```

```
+
        r = -errno;
+               goto finish;
+       }
+
+       if (fanotify_mark(fanotify_fd, FAN_MARK_ADD|FAN_MARK_MOUNT, FAN_OPEN, AT_FDCWD,
root) < 0) {
+               log_error("Failed to mark %s: %m", root);
+               r = -errno;
+               goto finish;
+       }
+
+       inotify_fd = open_inotify();
+       if (inotify_fd < 0) {
+               r = inotify_fd;
+               goto finish;
+       }
+
+       not_after = now(CLOCK_MONOTONIC) + arg_timeout;
+
+       my_pid = getpid();
+
+       pollfd[FD_FANOTIFY].fd = fanotify_fd;
+       pollfd[FD_FANOTIFY].events = POLLIN;
+       pollfd[FD_SIGNAL].fd = signal_fd;
+       pollfd[FD_SIGNAL].events = POLLIN;
+       pollfd[FD_INOTIFY].fd = inotify_fd;
+       pollfd[FD_INOTIFY].events = POLLIN;
+
+       sd_notify(0,
+                 "READY=1\n"
+                 "STATUS=Collecting readahead data");
+
+       log_debug("Collecting...");
+
+       if (access("/run/systemd/readahead/cancel",
 F_OK) >= 0) {
+               log_debug("Collection canceled");
+               r = -ECANCELED;
+               goto finish;
+       }
+
+       if (access("/run/systemd/readahead/done", F_OK) >= 0) {
+               log_debug("Got termination request");
+               goto done;
+       }
+
+       for (;;) {
```

```
+            union {
+                    struct fanotify_event_metadata metadata;
+                    char buffer[4096];
+            } data;
+            ssize_t n;
+            struct fanotify_event_metadata *m;
+            usec_t t;
+            int h;
+
+            if (hashmap_size(files) > arg_files_max) {
+                    log_debug("Reached maximum number of read ahead files, ending collection.");
+                    break;
+            }
+
+            t = now(CLOCK_MONOTONIC);
+            if (t >= not_after) {
+                    log_debug("Reached maximum collection time, ending collection.");
+
                 break;
+            }
+
+            if ((h = poll(pollfd, _FD_MAX, (int) ((not_after - t) / USEC_PER_MSEC))) < 0) {
+
+                    if (errno == EINTR)
+                            continue;
+
+                    log_error("poll(): %m");
+                    r = -errno;
+                    goto finish;
+            }
+
+            if (h == 0) {
+                    log_debug("Reached maximum collection time, ending collection.");
+                    break;
+            }
+
+            if (pollfd[FD_SIGNAL].revents) {
+                    log_debug("Got signal.");
+                    break;
+            }
+
+            if (pollfd[FD_INOTIFY].revents) {
+                    uint8_t inotify_buffer[sizeof(struct inotify_event) + FILENAME_MAX];
+                    struct inotify_event *e;
+
+                    if ((n = read(inotify_fd, &inotify_buffer, sizeof(inotify_buffer)))
 < 0) {
+                            if (errno == EINTR || errno == EAGAIN)
```

```
+                        continue;
+
+                log_error("Failed to read inotify event: %m");
+                r = -errno;
+                goto finish;
+            }
+
+            e = (struct inotify_event*) inotify_buffer;
+            while (n > 0) {
+                size_t step;
+
+                if ((e->mask & IN_CREATE) && streq(e->name, "cancel")) {
+                    log_debug("Collection canceled");
+                    r = -ECANCELED;
+                    goto finish;
+                }
+
+                if ((e->mask & IN_CREATE) && streq(e->name, "done")) {
+                    log_debug("Got termination request");
+
                 goto done;
+                }
+
+                step = sizeof(struct inotify_event) + e->len;
+                assert(step <= (size_t) n);
+
+                e = (struct inotify_event*) ((uint8_t*) e + step);
+                n -= step;
+            }
+        }
+
+        n = read(fanotify_fd, &data, sizeof(data));
+        if (n < 0) {
+
+            if (errno == EINTR || errno == EAGAIN)
+                continue;
+
+            /* fanotify sometimes returns EACCES on read()
+             * where it shouldn't. For now let's just
+             * ignore it here (which is safe), but
+             * eventually this should be
+             * dropped when the kernel is fixed.
+             *
+             * https://bugzilla.redhat.com/show_bug.cgi?id=707577
 */
+            if (errno == EACCES)
+                continue;
+
```

```
+                log_error("Failed to read event: %m");
+                r = -errno;
+                goto finish;
+        }
+
+        for (m = &data.metadata; FAN_EVENT_OK(m, n); m = FAN_EVENT_NEXT(m, n)) {
+                char fn[sizeof("/proc/self/fd/") + DECIMAL_STR_MAX(int)];
+                int k;
+
+                if (m->fd < 0)
+                        goto next_iteration;
+
+                if (m->pid == my_pid)
+                        goto next_iteration;
+
+                __sync_synchronize();
+                if (m->pid == shared->replay)
+                        goto next_iteration;
+
+                snprintf(fn, sizeof(fn), "/proc/self/fd/%i", m->fd);
+                k = readlink_malloc(fn, &p);
+                if (k
 >= 0) {
+                        if (startswith(p, "/tmp") ||
+                           endswith(p, " (deleted)") ||
+                           hashmap_get(files, p))
+                                /* Not interesting, or
+                                 * already read */
+                                free(p);
+                        else {
+                                unsigned long ul;
+                                usec_t entrytime;
+                                struct item *entry;
+
+                                entry = new0(struct item, 1);
+                                if (!entry) {
+                                        r = log_oom();
+                                        goto finish;
+                                }
+
+                                ul = fd_first_block(m->fd);
+
+
 entrytime = now(CLOCK_MONOTONIC);
+
+                                entry->block = ul;
+                                entry->path = strdup(p);
+                                if (!entry->path) {
```

```
+                                       free(entry);
+                                       r = log_oom();
+                                       goto finish;
+                               }
+                               entry->bin = (entrytime - starttime) / 2000000;
+
+                               k = hashmap_put(files, p, entry);
+                               if (k < 0) {
+                                       log_warning("hashmap_put() failed: %s", strerror(-k));
+                                       free(p);
+                               }
+                       }
+
+                } else
+                       log_warning("readlink(%s)
 failed: %s", fn, strerror(-k));
+
+               next_iteration:
+                       safe_close(m->fd);
+               }
+       }
+
+done:
+       fanotify_fd = safe_close(fanotify_fd);
+
+       log_debug("Writing Pack File...");
+
+       on_ssd = fs_on_ssd(root) > 0;
+       log_debug("On SSD: %s", yes_no(on_ssd));
+
+       on_btrfs = statfs(root, &sfs) >= 0 && F_TYPE_EQUAL(sfs.f_type, BTRFS_SUPER_MAGIC);
+       log_debug("On btrfs: %s", yes_no(on_btrfs));
+
+       if (asprintf(&pack_fn_new, "%s/.readahead.new", root) < 0) {
+               r = log_oom();
+               goto finish;
+       }
+
+       pack = fopen(pack_fn_new, "we");
+       if (!pack) {
+               log_error("Failed to open pack file: %m");
+               r = -errno;
+               goto finish;
+       }
+
+       fputs(CANONICAL_HOST READAHEAD_PACK_FILE_VERSION, pack);
+       putc(on_ssd ? 'S' : 'R', pack);
+
```

```
+       if (on_ssd || on_btrfs) {
+
+               /*
 On SSD or on btrfs, just write things out in the
+                * order the files were accessed. */
+
+               HASHMAP_FOREACH_KEY(q, p, files, i)
+                       pack_file(pack, p, on_btrfs);
+       } else {
+               unsigned n;
+
+               /* On rotating media, order things by the block
+                * numbers */
+
+               log_debug("Ordering...");
+
+               n = hashmap_size(files);
+               if (n) {
+                       _cleanup_free_ struct item *ordered;
+                       struct item *j;
+                       unsigned k;
+
+                       ordered = new(struct item, n);
+                       if (!ordered) {
+                               r = log_oom();
+                               goto finish;
+                       }
+
+                       j = ordered;
+                       HASHMAP_FOREACH_KEY(q, p, files, i) {
+                               memcpy(j, q, sizeof(struct item));
+
                               j++;
+                       }
+
+                       assert(ordered + n == j);
+
+                       qsort(ordered, n, sizeof(struct item), qsort_compare);
+
+                       for (k = 0; k < n; k++)
+                               pack_file(pack, ordered[k].path, on_btrfs);
+               } else
+                       log_warning("No pack files");
+       }
+
+       log_debug("Finalizing...");
+
+       fflush(pack);
```

```
+
+       if (ferror(pack)) {
+               log_error("Failed to write pack file.");
+               r = -EIO;
+               goto finish;
+       }
+
+       if (rename(pack_fn_new, pack_fn) < 0) {
+               log_error("Failed to rename readahead file: %m");
+               r = -errno;
+               goto finish;
+       }
+
+       fclose(pack);
+       pack = NULL;
+
+       log_debug("Done.");
+
+finish:
+       safe_close(fanotify_fd);
+       safe_close(signal_fd);
+       safe_close(inotify_fd);
+
+
      if (pack) {
+               fclose(pack);
+               unlink(pack_fn_new);
+       }
+       free(pack_fn_new);
+       free(pack_fn);
+
+       while ((p = hashmap_steal_first_key(files)))
+               free(p);
+
+       hashmap_free(files);
+
+       if (previous_block_readahead_set) {
+               uint64_t bytes;
+
+               /* Restore the original kernel readahead setting if we
+                * changed it, and nobody has overwritten it since
+                * yet. */
+               if (block_get_readahead(root, &bytes) >= 0 && bytes == 8*1024)
+                       block_set_readahead(root, previous_block_readahead);
+       }
+
+       return r;
+}
```

```
+
+int main_collect(const char *root) {
+
+       if (!root)
+               root = "/";
+
+       /* Skip this step on read-only media. Note that we check the
+        * underlying block device here, not he read-only flag of the
+        * file system on top, since
 that one is most likely mounted
+        * read-only anyway at boot, even if the underlying block
+        * device is theoretically writable. */
+       if (fs_on_read_only(root) > 0) {
+               log_info("Disabling readahead collector due to read-only media.");
+               return EXIT_SUCCESS;
+       }
+
+       if (!enough_ram()) {
+               log_info("Disabling readahead collector due to low memory.");
+               return EXIT_SUCCESS;
+       }
+
+       shared = shared_get();
+       if (!shared)
+               return EXIT_FAILURE;
+
+       shared->collect = getpid();
+       __sync_synchronize();
+
+       if (collect(root) < 0)
+               return EXIT_FAILURE;
+
+       return EXIT_SUCCESS;
+}
diff --git a/src/readahead/readahead-common.c b/src/readahead/readahead-common.c
new file mode 100644
index 0000000000..3ca48a7257
--- /dev/null
+++ b/src/readahead/readahead-common.c
@@ -0,0 +1,398 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode:
 nil -*-*/
+
+/***
+  This file is part of systemd.
+
+  Copyright 2010 Lennart Poettering
+
```

```
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+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+***/
+
+#include <errno.h>
+#include <stdlib.h>
+#include <string.h>
+#include <sys/sysinfo.h>
+#include <sys/inotify.h>
+#include <fcntl.h>
+#include <sys/mman.h>
+#include <unistd.h>
+
+#include "log.h"
+#include "readahead-common.h"
+#include
 "util.h"
+#include "missing.h"
+#include "fileio.h"
+#include "libudev.h"
+#include "udev-util.h"
+
+int file_verify(int fd, const char *fn, off_t file_size_max, struct stat *st) {
+        assert(fd >= 0);
+        assert(fn);
+        assert(st);
+
+        if (fstat(fd, st) < 0) {
+                log_warning("fstat(%s) failed: %m", fn);
+                return -errno;
+        }
+
+        if (!S_ISREG(st->st_mode)) {
+                log_debug("Not preloading special file %s", fn);
+                return 0;
+        }
+
+        if (st->st_size <= 0 || st->st_size > file_size_max) {
```

```
+               assert_cc(sizeof(st->st_size) == 8);
+               log_debug("Not preloading file %s with size out of bounds %"PRIu64,
+                         fn, st->st_size);
+               return 0;
+       }
+
+       return 1;
+}
+
+int fs_on_ssd(const char *p) {
+       struct stat st;
+       _cleanup_udev_unref_ struct udev *udev = NULL;
+       _cleanup_udev_device_unref_ struct
 udev_device *udev_device = NULL;
+       struct udev_device *look_at = NULL;
+       const char *devtype, *rotational, *model, *id;
+       int r;
+
+       assert(p);
+
+       if (stat(p, &st) < 0)
+               return -errno;
+
+       if (major(st.st_dev) == 0) {
+               _cleanup_fclose_ FILE *f = NULL;
+               int mount_id;
+               union file_handle_union h = { .handle.handle_bytes = MAX_HANDLE_SZ, };
+
+               /* Might be btrfs, which exposes "ssd" as mount flag if it is on ssd.
+                *
+                * We first determine the mount ID here, if we can,
+                * and then lookup the mount ID in mountinfo to find
+                * the mount options. */
+
+               r = name_to_handle_at(AT_FDCWD, p, &h.handle, &mount_id, AT_SYMLINK_FOLLOW);
+               if (r < 0)
+                       return false;
+
+               f = fopen("/proc/self/mountinfo", "re");
+               if (!f)
+
          return false;
+
+               for (;;) {
+                       char line[LINE_MAX], *e;
+                       _cleanup_free_ char *opts = NULL;
+                       int mid;
+
```

```
+                if (!fgets(line, sizeof(line), f))
+                        return false;
+
+                truncate_nl(line);
+
+                if (sscanf(line, "%i", &mid) != 1)
+                        continue;
+
+                if (mid != mount_id)
+                        continue;
+
+                e = strstr(line, " - ");
+                if (!e)
+                        continue;
+
+                if (sscanf(e+3, "%*s %*s %ms", &opts) != 1)
+                        continue;
+
+                if (streq(opts, "ssd") || startswith(opts, "ssd,") || endswith(opts, ",ssd") || strstr(opts, ",ssd,"))
+                        return true;
+        }
+
+
    return false;
+       }
+
+       udev = udev_new();
+       if (!udev)
+               return -ENOMEM;
+
+       udev_device = udev_device_new_from_devnum(udev, 'b', st.st_dev);
+       if (!udev_device)
+               return false;
+
+       devtype = udev_device_get_property_value(udev_device, "DEVTYPE");
+       if (devtype && streq(devtype, "partition"))
+               look_at = udev_device_get_parent(udev_device);
+       else
+               look_at = udev_device;
+
+       if (!look_at)
+               return false;
+
+       /* First, try high-level property */
+       id = udev_device_get_property_value(look_at, "ID_SSD");
+       if (id)
+               return streq(id, "1");
+
```

```
+       /* Second, try kernel attribute */
+       rotational = udev_device_get_sysattr_value(look_at, "queue/rotational");
+       if (rotational)
+               return streq(rotational, "0");
+
+       /* Finally, fallback to heuristics */
+       look_at = udev_device_get_parent(look_at);
+
      if (!look_at)
+               return false;
+
+       model = udev_device_get_sysattr_value(look_at, "model");
+       if (model)
+               return !!strstr(model, "SSD");
+
+       return false;
+}
+
+int fs_on_read_only(const char *p) {
+       struct stat st;
+       _cleanup_udev_unref_ struct udev *udev = NULL;
+       _cleanup_udev_device_unref_ struct udev_device *udev_device = NULL;
+       const char *read_only;
+
+       assert(p);
+
+       if (stat(p, &st) < 0)
+               return -errno;
+
+       if (major(st.st_dev) == 0)
+               return false;
+
+       udev = udev_new();
+       if (!udev)
+               return -ENOMEM;
+
+       udev_device = udev_device_new_from_devnum(udev, 'b', st.st_dev);
+       if (!udev_device)
+               return false;
+
+       read_only = udev_device_get_sysattr_value(udev_device, "ro");
+       if (read_only)
+               return streq(read_only, "1");
+
+       return
 false;
+}
+
```

```
+bool enough_ram(void) {
+       struct sysinfo si;
+
+       assert_se(sysinfo(&si) >= 0);
+
+       /* Enable readahead only with at least 128MB memory */
+       return si.totalram > 127 * 1024*1024 / si.mem_unit;
+}
+
+static void mkdirs(void) {
+       if (mkdir("/run/systemd", 0755) && errno != EEXIST)
+               log_warning("Failed to create /run/systemd: %m");
+       if (mkdir("/run/systemd/readahead", 0755) && errno != EEXIST)
+               log_warning("Failed to create /run/systemd: %m");
+}
+
+int open_inotify(void) {
+       int fd;
+
+       fd = inotify_init1(IN_CLOEXEC|IN_NONBLOCK);
+       if (fd < 0) {
+               log_error("Failed to create inotify handle: %m");
+               return -errno;
+       }
+
+       mkdirs();
+
+       if (inotify_add_watch(fd, "/run/systemd/readahead", IN_CREATE) < 0) {
+               log_error("Failed to watch /run/systemd/readahead: %m");
+               safe_close(fd);
+
 return -errno;
+       }
+
+       return fd;
+}
+
+ReadaheadShared *shared_get(void) {
+       _cleanup_close_ int fd = -1;
+       ReadaheadShared *m = NULL;
+
+       mkdirs();
+
+       fd = open("/run/systemd/readahead/shared", O_CREAT|O_RDWR|O_CLOEXEC, 0644);
+       if (fd < 0) {
+               log_error("Failed to create shared memory segment: %m");
+               return NULL;
+       }
```

```
+
+       if (ftruncate(fd, sizeof(ReadaheadShared)) < 0) {
+               log_error("Failed to truncate shared memory segment: %m");
+               return NULL;
+       }
+
+       m = mmap(NULL, sizeof(ReadaheadShared), PROT_WRITE|PROT_READ, MAP_SHARED, fd, 0);
+       if (m == MAP_FAILED) {
+               log_error("Failed to mmap shared memory segment: %m");
+               return NULL;
+       }
+
+       return m;
+}
+
+/* We use 20K instead of the more human digestable 16K here. Why?
+   Simply so that it is more unlikely that users end up picking this
+   value too
 so that we can recognize better whether the user changed
+   the value while we had it temporarily bumped. */
+#define BUMP_REQUEST_NR (20*1024u)
+
+int block_bump_request_nr(const char *p) {
+       struct stat st;
+       uint64_t u;
+       char *ap = NULL, *line = NULL;
+       int r;
+       dev_t d;
+
+       assert(p);
+
+       if (stat(p, &st) < 0)
+               return -errno;
+
+       if (major(st.st_dev) == 0)
+               return 0;
+
+       d = st.st_dev;
+       block_get_whole_disk(d, &d);
+
+       if (asprintf(&ap, "/sys/dev/block/%u:%u/queue/nr_requests", major(d), minor(d)) < 0) {
+               r= -ENOMEM;
+               goto finish;
+       }
+
+       r = read_one_line_file(ap, &line);
+       if (r < 0) {
+               if (r == -ENOENT)
```

```
+                       r = 0;
+               goto finish;
+       }
+
+       r = safe_atou64(line, &u);
+       if (r >= 0 && u >= BUMP_REQUEST_NR) {
+               r = 0;
+
 goto finish;
+       }
+
+       free(line);
+       line = NULL;
+
+       if (asprintf(&line, "%u", BUMP_REQUEST_NR) < 0) {
+               r = -ENOMEM;
+               goto finish;
+       }
+
+       r = write_string_file(ap, line);
+       if (r < 0)
+               goto finish;
+
+       log_info("Bumped block_nr parameter of %u:%u to %u. This is a temporary hack and should be removed one
day.", major(d), minor(d), BUMP_REQUEST_NR);
+       r = 1;
+
+finish:
+       free(ap);
+       free(line);
+
+       return r;
+}
+
+int block_get_readahead(const char *p, uint64_t *bytes) {
+       struct stat st;
+       char *ap = NULL, *line = NULL;
+       int r;
+       dev_t d;
+       uint64_t u;
+
+       assert(p);
+       assert(bytes);
+
+       if (stat(p, &st) < 0)
+               return -errno;
+
+       if (major(st.st_dev) == 0)
```

```
+               return 0;
+
+       d = st.st_dev;
+       block_get_whole_disk(d, &d);
+
+       if (asprintf(&ap, "/sys/dev/block/%u:%u/bdi/read_ahead_kb",
 major(d), minor(d)) < 0) {
+               r = -ENOMEM;
+               goto finish;
+       }
+
+       r = read_one_line_file(ap, &line);
+       if (r < 0)
+               goto finish;
+
+       r = safe_atou64(line, &u);
+       if (r < 0)
+               goto finish;
+
+       *bytes = u * 1024ULL;
+
+finish:
+       free(ap);
+       free(line);
+
+       return r;
+}
+
+int block_set_readahead(const char *p, uint64_t bytes) {
+       struct stat st;
+       char *ap = NULL, *line = NULL;
+       int r;
+       dev_t d;
+
+       assert(p);
+       assert(bytes);
+
+       if (stat(p, &st) < 0)
+               return -errno;
+
+       if (major(st.st_dev) == 0)
+               return 0;
+
+       d = st.st_dev;
+       block_get_whole_disk(d, &d);
+
+       if (asprintf(&ap, "/sys/dev/block/%u:%u/bdi/read_ahead_kb", major(d), minor(d)) < 0) {
+               r = -ENOMEM;
```

```
+                goto finish;
+        }
+
+
        if (asprintf(&line, "%llu", bytes / 1024ULL) < 0) {
+                r = -ENOMEM;
+                goto finish;
+        }
+
+        r = write_string_file(ap, line);
+        if (r < 0)
+                goto finish;
+
+finish:
+        free(ap);
+        free(line);
+
+        return r;
+}
diff --git a/src/readahead/readahead-common.h b/src/readahead/readahead-common.h
new file mode 100644
index 0000000000..b34f3aadd7
--- /dev/null
+++ b/src/readahead/readahead-common.h
@@ -0,0 +1,61 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
+#pragma once
+
+/***
+  This file is part of systemd.
+
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+  under the terms of the GNU Lesser General Public License as published by
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+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+***/
```

```
+
+#include <sys/stat.h>
+#include <sys/types.h>
+
+#include "macro.h"
+#include "util.h"
+
+#define READAHEAD_FILE_SIZE_MAX (10*1024*1024)
+
+#define READAHEAD_PACK_FILE_VERSION ";VERSION=2\n"
+
+extern unsigned arg_files_max;
+extern off_t arg_file_size_max;
+extern usec_t arg_timeout;
+
+int file_verify(int fd, const char *fn, off_t file_size_max, struct stat *st);
+
+int fs_on_ssd(const char *p);
+int fs_on_read_only(const char *p);
+
+bool enough_ram(void);
+
+int open_inotify(void);
+
+typedef struct ReadaheadShared {
+        pid_t collect;
+        pid_t replay;
+} _packed_ ReadaheadShared;
+
+ReadaheadShared *shared_get(void);
+
+int block_bump_request_nr(const char
 *p);
+
+int block_get_readahead(const char *p, uint64_t *bytes);
+int block_set_readahead(const char *p, uint64_t bytes);
+
+int main_collect(const char *root);
+int main_replay(const char *root);
+int main_analyze(const char *pack_path);
diff --git a/src/readahead/readahead-replay.c b/src/readahead/readahead-replay.c
new file mode 100644
index 0000000000..f81e0fe55d
--- /dev/null
+++ b/src/readahead/readahead-replay.c
@@ -0,0 +1,281 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
```

```
+/***
+  This file is part of systemd.
+
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+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+***/
+
+#include <errno.h>
+#include <inttypes.h>
+#include <fcntl.h>
+#include <linux/limits.h>
+#include <stdbool.h>
+#include <stdio.h>
+#include <stdlib.h>
+#include <string.h>
+#include <sys/select.h>
+#include <sys/time.h>
+#include <sys/types.h>
+#include <sys/stat.h>
+#include <unistd.h>
+#include <getopt.h>
+#include <sys/inotify.h>
+
+#include "systemd/sd-daemon.h"
+
+#include "missing.h"
+#include "util.h"
+#include "set.h"
+#include "ioprio.h"
+#include "readahead-common.h"
+#include "virt.h"
+
+static ReadaheadShared *shared = NULL;
+
+static int unpack_file(FILE *pack) {
```

```
+       _cleanup_close_ int fd = -1;
+       char fn[PATH_MAX];
+       bool any = false;
+       struct stat st;
+       uint64_t inode;
+
+       assert(pack);
+
+
      if (!fgets(fn, sizeof(fn), pack))
+               return 0;
+
+       char_array_0(fn);
+       truncate_nl(fn);
+
+       fd = open(fn, O_RDONLY|O_CLOEXEC|O_NOATIME|O_NOCTTY|O_NOFOLLOW);
+       if (fd < 0) {
+               if (errno != ENOENT && errno != EPERM && errno != EACCES && errno != ELOOP)
+                       log_warning("open(%s) failed: %m", fn);
+
+       } else if (file_verify(fd, fn, arg_file_size_max, &st) <= 0)
+               fd = safe_close(fd);
+
+       if (fread(&inode, sizeof(inode), 1, pack) != 1) {
+               log_error("Premature end of pack file.");
+               return -EIO;
+       }
+
+       if (fd >= 0) {
+               /* If the inode changed the file got deleted, so just
+                * ignore this entry */
+               if (st.st_ino != (uint64_t) inode)
+                       fd = safe_close(fd);
+       }
+
+       for (;;) {
+               uint32_t b, c;
+
+               if (fread(&b, sizeof(b), 1,
 pack) != 1 ||
+                   fread(&c, sizeof(c), 1, pack) != 1) {
+                       log_error("Premature end of pack file.");
+                       return -EIO;
+               }
+
+               if (b == 0 && c == 0)
+                       break;
+
```

```
+                if (c <= b) {
+                        log_error("Invalid pack file.");
+                        return -EIO;
+                }
+
+                log_debug("%s: page %u to %u", fn, b, c);
+
+                any = true;
+
+                if (fd >= 0) {
+                        if (posix_fadvise(fd, b * page_size(), (c - b) * page_size(), POSIX_FADV_WILLNEED) < 0) {
+                                log_warning("posix_fadvise() failed: %m");
+                                return -errno;
+                        }
+                }
+        }
+
+        if (!any && fd >= 0) {
+                /* if no range is encoded in the pack file this is
+                 * intended to mean that the whole file
 shall be
+                 * read */
+
+                if (posix_fadvise(fd, 0, st.st_size, POSIX_FADV_WILLNEED) < 0) {
+                        log_warning("posix_fadvise() failed: %m");
+                        return -errno;
+                }
+        }
+
+        return 0;
+}
+
+static int replay(const char *root) {
+        _cleanup_close_ int inotify_fd = -1;
+        _cleanup_free_ char *pack_fn = NULL;
+        _cleanup_fclose_ FILE *pack = NULL;
+        bool on_ssd, ready = false;
+        char line[LINE_MAX];
+        int prio, c;
+
+        assert(root);
+
+        block_bump_request_nr(root);
+
+        if (asprintf(&pack_fn, "%s/.readahead", root) < 0)
+                return log_oom();
+
+        pack = fopen(pack_fn, "re");
```

```
+       if (!pack) {
+               if (errno == ENOENT) {
+                       log_debug("No pack file found.");
+                       return 0;
+               }
+
+               log_error("Failed to open pack file: %m");
+
        return -errno;
+       }
+
+       posix_fadvise(fileno(pack), 0, 0, POSIX_FADV_WILLNEED);
+
+       inotify_fd = open_inotify();
+       if (inotify_fd < 0)
+               return inotify_fd;
+
+       if (!fgets(line, sizeof(line), pack)) {
+               log_error("Premature end of pack file.");
+               return -EIO;
+       }
+
+       char_array_0(line);
+
+       if (!streq(line, CANONICAL_HOST READAHEAD_PACK_FILE_VERSION)) {
+               log_debug("Pack file host or version type mismatch.");
+               goto done;
+       }
+
+       c = getc(pack);
+       if (c == EOF) {
+               log_debug("Premature end of pack file.");
+               return -EIO;
+       }
+
+       /* We do not retest SSD here, so that we can start replaying
+        * before udev is up.*/
+       on_ssd = c == 'S';
+       log_debug("On SSD: %s", yes_no(on_ssd));
+
+       if (on_ssd)
+               prio = IOPRIO_PRIO_VALUE(IOPRIO_CLASS_IDLE, 0);
+
    else
+               /* We are not using RT here, since we'd starve IO that
+               we didn't record (which is for example blkid, since
+               its disk accesses go directly to the block device and
+               are thus not visible in fallocate) to death. However,
```

```
+               we do ask for an IO prio that is slightly higher than
+               the default (which is BE. 4) */
+               prio = IOPRIO_PRIO_VALUE(IOPRIO_CLASS_BE, 2);
+
+       if (ioprio_set(IOPRIO_WHO_PROCESS, getpid(), prio) < 0)
+               log_warning("Failed to set IDLE IO priority class: %m");
+
+       sd_notify(0, "STATUS=Replaying readahead data");
+
+       log_debug("Replaying...");
+
+       if (access("/run/systemd/readahead/noreplay", F_OK) >= 0) {
+               log_debug("Got termination request");
+               goto done;
+       }
+
+       while (!feof(pack) && !ferror(pack)) {
+               uint8_t inotify_buffer[sizeof(struct inotify_event) +
 FILENAME_MAX];
+               int k;
+               ssize_t n;
+
+               n = read(inotify_fd, &inotify_buffer, sizeof(inotify_buffer));
+               if (n < 0) {
+                       if (errno != EINTR && errno != EAGAIN) {
+                               log_error("Failed to read inotify event: %m");
+                               return -errno;
+                       }
+               } else {
+                       struct inotify_event *e = (struct inotify_event*) inotify_buffer;
+
+                       while (n > 0) {
+                               size_t step;
+
+                               if ((e->mask & IN_CREATE) && streq(e->name, "noreplay")) {
+                                       log_debug("Got termination request");
+                                       goto done;
+                               }
+
+                               step = sizeof(struct inotify_event) + e->len;
+                               assert(step <= (size_t)
 n);
+
+                               e = (struct inotify_event*) ((uint8_t*) e + step);
+                               n -= step;
+                       }
+               }
+
```

```
+               k = unpack_file(pack);
+               if (k < 0)
+                       return k;
+
+               if (!ready) {
+                       /* We delay the ready notification until we
+                        * queued at least one read */
+                       sd_notify(0, "READY=1");
+                       ready = true;
+               }
+       }
+
+done:
+       if (ferror(pack)) {
+               log_error("Failed to read pack file.");
+               return -EIO;
+       }
+
+       if (!ready)
+               sd_notify(0, "READY=1");
+
+       log_debug("Done.");
+       return 0;
+}
+
+int main_replay(const char *root) {
+
+       if (!root)
+               root = "/";
+
+       if (!enough_ram()) {
+               log_info("Disabling readahead replay due
 to low memory.");
+               return EXIT_SUCCESS;
+       }
+
+       shared = shared_get();
+       if (!shared)
+               return EXIT_FAILURE;
+
+       shared->replay = getpid();
+       __sync_synchronize();
+
+       if (replay(root) < 0)
+               return EXIT_FAILURE;
+
+       return EXIT_SUCCESS;
+}
```

```
diff --git a/src/readahead/readahead.c b/src/readahead/readahead.c
new file mode 100644
index 0000000000..35176e9379
--- /dev/null
+++ b/src/readahead/readahead.c
@@ -0,0 +1,163 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
+/***
+  This file is part of systemd.
+
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+
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+  under the terms of the GNU Lesser General Public License as published by
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+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+***/
+
+#include <stdio.h>
+#include <getopt.h>
+#include <stddef.h>
+#include <stdlib.h>
+#include <unistd.h>
+#include <errno.h>
+#include <string.h>
+
+#include "util.h"
+#include "def.h"
+#include "build.h"
+#include "readahead-common.h"
+
+unsigned arg_files_max = 16*1024;
+off_t arg_file_size_max = READAHEAD_FILE_SIZE_MAX;
+usec_t arg_timeout = 2*USEC_PER_MINUTE;
+
+static void help(void) {
+        printf("%1$s [OPTIONS...] collect [DIRECTORY]\n\n"
+               "Collect read-ahead data on early boot.\n\n"
```

```
+            "  -h --help                Show this help\n"
+            "     --version             Show package version\n"
+            "     --files-max=INT
      Maximum number of files to read ahead\n"
+            "     --file-size-max=BYTES  Maximum size of files to read ahead\n"
+            "     --timeout=USEC         Maximum time to spend collecting data\n"
+            "\n\n"
+            "%1$s [OPTIONS...] replay [DIRECTORY]\n\n"
+            "Replay collected read-ahead data on early boot.\n\n"
+            "  -h --help                Show this help\n"
+            "     --version             Show package version\n"
+            "     --file-size-max=BYTES  Maximum size of files to read ahead\n"
+            "\n\n"
+            "%1$s [OPTIONS...] analyze [PACK-FILE]\n\n"
+            "Analyze collected read-ahead data.\n\n"
+            "  -h --help                Show this help\n"
+            "     --version             Show package version\n",
+            program_invocation_short_name);
+}
+
+static int parse_argv(int argc, char *argv[]) {
+
+       enum {
+
 ARG_VERSION = 0x100,
+               ARG_FILES_MAX,
+               ARG_FILE_SIZE_MAX,
+               ARG_TIMEOUT
+       };
+
+       static const struct option options[] = {
+               { "help",          no_argument,       NULL, 'h'               },
+               { "version",       no_argument,       NULL, ARG_VERSION       },
+               { "files-max",     required_argument, NULL, ARG_FILES_MAX     },
+               { "file-size-max", required_argument, NULL, ARG_FILE_SIZE_MAX  },
+               { "timeout",       required_argument, NULL, ARG_TIMEOUT       },
+               {}
+       };
+
+       int c;
+
+       assert(argc >= 0);
+       assert(argv);
+
+       while ((c = getopt_long(argc, argv, "h", options, NULL)) >= 0)
+
+               switch (c) {
+
```

```
+            case 'h':
+                    help();
+                    return 0;
+
+            case ARG_VERSION:
+                    puts(PACKAGE_STRING);
+
          puts(SYSTEMD_FEATURES);
+                    return 0;
+
+            case ARG_FILES_MAX:
+                    if (safe_atou(optarg, &arg_files_max) < 0 || arg_files_max <= 0) {
+                            log_error("Failed to parse maximum number of files %s.", optarg);
+                            return -EINVAL;
+                    }
+                    break;
+
+            case ARG_FILE_SIZE_MAX: {
+                    unsigned long long ull;
+
+                    if (safe_atollu(optarg, &ull) < 0 || ull <= 0) {
+                            log_error("Failed to parse maximum file size %s.", optarg);
+                            return -EINVAL;
+                    }
+
+                    arg_file_size_max = (off_t) ull;
+                    break;
+            }
+
+            case ARG_TIMEOUT:
+                    if (parse_sec(optarg, &arg_timeout) < 0 || arg_timeout <= 0) {
+
            log_error("Failed to parse timeout %s.", optarg);
+                            return -EINVAL;
+                    }
+
+                    break;
+
+            case '?':
+                    return -EINVAL;
+
+            default:
+                    assert_not_reached("Unhandled option");
+            }
+
+        if (optind != argc-1 &&
+            optind != argc-2) {
+                log_error("%s: wrong number of arguments.",
```

```
+                       program_invocation_short_name);
+               return -EINVAL;
+       }
+
+       return 1;
+}
+
+int main(int argc, char *argv[]) {
+       int r;
+
+       log_set_target(LOG_TARGET_SAFE);
+       log_parse_environment();
+       log_open();
+
+       umask(0022);
+
+       r = parse_argv(argc, argv);
+       if (r <= 0)
+               return r < 0 ? EXIT_FAILURE : EXIT_SUCCESS;
+
+       if (streq(argv[optind], "collect"))
+               return main_collect(argv[optind+1]);
+
       else if (streq(argv[optind], "replay"))
+               return main_replay(argv[optind+1]);
+       else if (streq(argv[optind], "analyze"))
+               return main_analyze(argv[optind+1]);
+
+       log_error("Unknown verb %s.", argv[optind]);
+       return EXIT_FAILURE;
+}
diff --git a/src/readahead/sd-readahead.c b/src/readahead/sd-readahead.c
new file mode 100644
index 0000000000..675d82cdd1
--- /dev/null
+++ b/src/readahead/sd-readahead.c
@@ -0,0 +1,89 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
+/***
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+  publish, distribute, sublicense, and/or sell copies of the Software,
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```

```
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+  ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN
+  CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
+  SOFTWARE.
+***/
+
+#ifndef _GNU_SOURCE
+#  define _GNU_SOURCE
+#endif
+
+#include <unistd.h>
+#include <errno.h>
+#include <sys/stat.h>
+#include <sys/types.h>
+#include <fcntl.h>
+#include <string.h>
+
+#include "sd-readahead.h"
+
+#if (__GNUC__ >= 4)
+#  ifdef SD_EXPORT_SYMBOLS
+/* Export symbols */
+#    define _sd_export_
 __attribute__ ((visibility("default")))
+#  else
+/* Don't export the symbols */
+#    define _sd_export_ __attribute__ ((visibility("hidden")))
+#  endif
+#else
+#  define _sd_export_
+#endif
+
+static int touch(const char *path) {
+
+#if !defined(DISABLE_SYSTEMD) && defined(__linux__)
+        int fd;
+
+        mkdir("/run/systemd", 0755);
```

```
+       mkdir("/run/systemd/readahead", 0755);
+
+       fd = open(path, O_WRONLY|O_CREAT|O_CLOEXEC|O_NOCTTY, 0666);
+       if (fd < 0)
+               return -errno;
+
+       for (;;) {
+               if (close(fd) >= 0)
+                       break;
+
+               if (errno != EINTR)
+                       return -errno;
+       }
+
+#endif
+       return 0;
+}
+
+_sd_export_ int sd_readahead(const char *action) {
+
+       if (!action)
+               return -EINVAL;
+
+       if (strcmp(action, "cancel") == 0)
+               return touch("/run/systemd/readahead/cancel");
+       else if (strcmp(action, "done") == 0)
+
            return touch("/run/systemd/readahead/done");
+       else if (strcmp(action, "noreplay") == 0)
+               return touch("/run/systemd/readahead/noreplay");
+
+       return -EINVAL;
+}
diff --git a/src/readahead/test-ssd.c b/src/readahead/test-ssd.c
new file mode 100644
index 0000000000..808faf359c
--- /dev/null
+++ b/src/readahead/test-ssd.c
@@ -0,0 +1,41 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
+/***
+  This file is part of systemd.
+
+  Copyright 2014 Zbigniew Jdrzejewski-Szmek
+
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```
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+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+***/
+
+#include "readahead-common.h"
+
+int main(int argc, char *argv[]) {
+       int i;
+
+       for (i = 1; i < argc; i++) {
+               char *name = argv[i];
+               int r;
+
+               r = fs_on_ssd(name);
+               if (r < 0) {
+                       log_error("%s: %s", name, strerror(-r));
+                       return EXIT_FAILURE;
+               }
+
+               log_info("%s: %s", name, r ? "SSD" : "---");
+       }
+
+       return EXIT_SUCCESS;
+}
diff --git a/src/systemd/sd-readahead.h b/src/systemd/sd-readahead.h
new file mode 100644
index 0000000000..bb30f9a45e
--- /dev/null
+++ b/src/systemd/sd-readahead.h
@@ -0,0 +1,73 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
+#ifndef foosdreadaheadhfoo
+#define foosdreadaheadhfoo
+
+/***
+
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+
```

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+ ACTION OF CONTRACT, TORT
 OR OTHERWISE, ARISING FROM, OUT OF OR IN
+ CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE
+ SOFTWARE.
+***/
+
+#ifdef __cplusplus
+extern "C" {
+#endif
+
+/*
+ Reference implementation of a few boot read-ahead-related
+ interfaces. These interfaces are trivial to implement. To simplify
+ porting, we provide this reference implementation. Applications are
+ welcome to reimplement the algorithms described here if they do not
+ want to include these two source files.
+
+ You may compile this with -DDISABLE_SYSTEMD to disable systemd
+ support. This makes all calls NOPs.
+
+ Because this is drop-in code, we don't want any of our symbols to be
+ exported in any case. Hence, we declare hidden visibility for all of
+ them.
+
+ You may find an up-to-date version of these source files online:
+
+ http://cgit.freedesktop.org/systemd/systemd/plain/src/systemd/sd-readahead.h
+ http://cgit.freedesktop.org/systemd/systemd/plain/src/readahead/sd-readahead.c
+
+ This
 should compile on non-Linux systems too, but all functions
+ will become NOPs.

```
+
+  See sd-readahead(3) for more information.
+*/
+
+/*
+  Controls on-going disk read-ahead operations during boot-up. The argument
+  must be one of the following strings: "cancel", "done", or "noreplay".
+
+  cancel = terminate read-ahead data collection, and drop collected information
+  done = terminate read-ahead data collection, and keep collected information
+  noreplay = terminate read-ahead replay
+*/
+int sd_readahead(const char *action);
+
+#ifdef __cplusplus
+}
+#endif
+
+#endif
diff --git a/system-preset/90-systemd.preset b/system-preset/90-systemd.preset
index ee1b864bcf..24963f0623 100644
--- a/system-preset/90-systemd.preset
+++ b/system-preset/90-systemd.preset
@@ -12,6 +12,7 @@ enable remote-fs.target
enable machines.target

enable getty@.service
+enable systemd-readahead-*
enable systemd-timesyncd.service
enable systemd-networkd.service
enable systemd-resolved.service
diff --git
 a/units/.gitignore b/units/.gitignore
index 6fdb629c3d..638a7abc4c 100644
--- a/units/.gitignore
+++ b/units/.gitignore
@@ -52,6 +52,9 @@
/systemd-poweroff.service
/systemd-quotacheck.service
/systemd-random-seed.service
+/systemd-readahead-collect.service
+/systemd-readahead-done.service
+/systemd-readahead-replay.service
/systemd-reboot.service
/systemd-remount-fs.service
/systemd-resolved.service
diff --git a/units/ldconfig.service b/units/ldconfig.service
index f9691e2f2d..43c145b726 100644
```

```
--- a/units/ldconfig.service
+++ b/units/ldconfig.service
@@ -10,7 +10,7 @@ Description=Rebuild Dynamic Linker Cache
Documentation=man:ldconfig(8)
DefaultDependencies=no
Conflicts=shutdown.target
-After=systemd-remount-fs.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service
Before=sysinit.target shutdown.target systemd-update-done.service
ConditionNeedsUpdate=/etc

diff --git a/units/quotaon.service.in b/units/quotaon.service.in
index
 7d59a40195..49a50a7feb 100644
--- a/units/quotaon.service.in
+++ b/units/quotaon.service.in
@@ -9,7 +9,7 @@
Description=Enable File System Quotas
Documentation=man:quotaon(8)
DefaultDependencies=no
-After=systemd-quotacheck.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-quotacheck.service
Before=local-fs.target shutdown.target
ConditionPathExists=@QUOTAON@

diff --git a/units/system-update.target b/units/system-update.target
index 48d46fcbda..d0f847f957 100644
--- a/units/system-update.target
+++ b/units/system-update.target
@@ -10,7 +10,7 @@ Description=System Update
Documentation=http://freedesktop.org/wiki/Software/systemd/SystemUpdates
Documentation=man:systemd.special(7) man:systemd-system-update-generator(8)
Requires=sysinit.target
-Conflicts=shutdown.target
+Conflicts=shutdown.target systemd-readahead-collect.service systemd-readahead-replay.service
After=sysinit.target
Before=shutdown.target
AllowIsolate=yes
diff --git
 a/units/systemd-backlight@.service.in b/units/systemd-backlight@.service.in
index 5e6706c11c..b146e30f2d 100644
--- a/units/systemd-backlight@.service.in
+++ b/units/systemd-backlight@.service.in
@@ -11,7 +11,7 @@ Documentation=man:systemd-backlight@.service(8)
DefaultDependencies=no
RequiresMountsFor=/var/lib/systemd/backlight
Conflicts=shutdown.target
-After=systemd-remount-fs.service
```

```
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service
Before=sysinit.target shutdown.target

[Service]
diff --git a/units/systemd-binfmt.service.in b/units/systemd-binfmt.service.in
index 34a5d5237b..02dfe774df 100644
--- a/units/systemd-binfmt.service.in
+++ b/units/systemd-binfmt.service.in
@@ -11,7 +11,7 @@ Documentation=man:systemd-binfmt.service(8) man:binfmt.d(5)
Documentation=https://www.kernel.org/doc/Documentation/binfmt_misc.txt
DefaultDependencies=no
Conflicts=shutdown.target
-After=proc-sys-fs-binfmt_misc.automount
+After=systemd-readahead-collect.service
 systemd-readahead-replay.service proc-sys-fs-binfmt_misc.automount
Before=sysinit.target shutdown.target
ConditionPathIsReadWrite=/proc/sys/
ConditionDirectoryNotEmpty=|/lib/binfmt.d
diff --git a/units/systemd-firstboot.service.in b/units/systemd-firstboot.service.in
index 405c6f3fd2..89fa7e1dd7 100644
--- a/units/systemd-firstboot.service.in
+++ b/units/systemd-firstboot.service.in
@@ -10,7 +10,7 @@ Description=First Boot Wizard
Documentation=man:systemd-firstboot(1)
DefaultDependencies=no
Conflicts=shutdown.target
-After=systemd-remount-fs.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service
Before=systemd-sysusers.service sysinit.target shutdown.target
ConditionPathIsReadWrite=/etc
ConditionFirstBoot=yes
diff --git a/units/systemd-fsck-root.service.in b/units/systemd-fsck-root.service.in
index 6d7657853e..26cce5131e 100644
--- a/units/systemd-fsck-root.service.in
+++ b/units/systemd-fsck-root.service.in
@@
 -9,6 +9,7 @@
Description=File System Check on Root Device
Documentation=man:systemd-fsck-root.service(8)
DefaultDependencies=no
+After=systemd-readahead-collect.service systemd-readahead-replay.service
Before=local-fs.target shutdown.target
ConditionPathIsReadWrite=!/

diff --git a/units/systemd-fsck@.service.in b/units/systemd-fsck@.service.in
index 857e625679..d2cda6a466 100644
--- a/units/systemd-fsck@.service.in
+++ b/units/systemd-fsck@.service.in
```

```
@@ -10,7 +10,7 @@ Description=File System Check on %f
Documentation=man:systemd-fsck@.service(8)
DefaultDependencies=no
BindsTo=%i.device
-After=%i.device systemd-fsck-root.service local-fs-pre.target
+After=systemd-readahead-collect.service systemd-readahead-replay.service %i.device systemd-fsck-root.service
local-fs-pre.target
Before=shutdown.target

[Service]
diff --git a/units/systemd-hwdb-update.service.in b/units/systemd-hwdb-update.service.in
index 791528e2b2..4bed482f8c 100644
--- a/units/systemd-hwdb-update.service.in
+++
 b/units/systemd-hwdb-update.service.in
@@ -10,7 +10,7 @@ Description=Rebuild Hardware Database
Documentation=man:hwdb(7) man:systemd-hwdb(8)
DefaultDependencies=no
Conflicts=shutdown.target
-After=systemd-remount-fs.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service
Before=sysinit.target shutdown.target systemd-update-done.service
ConditionNeedsUpdate=/etc
ConditionPathExists=|!@udevlibexecdir@/hwdb.bin
diff --git a/units/systemd-journal-catalog-update.service.in b/units/systemd-journal-catalog-update.service.in
index 6370dd478f..5b85889dda 100644
--- a/units/systemd-journal-catalog-update.service.in
+++ b/units/systemd-journal-catalog-update.service.in
@@ -10,7 +10,7 @@ Description=Rebuild Journal Catalog
Documentation=man:systemd-journald.service(8) man:journald.conf(5)
DefaultDependencies=no
Conflicts=shutdown.target
-After=local-fs.target
+After=systemd-readahead-collect.service systemd-readahead-replay.service
 local-fs.target
Before=sysinit.target shutdown.target systemd-update-done.service
ConditionNeedsUpdate=/etc

diff --git a/units/systemd-modules-load.service.in b/units/systemd-modules-load.service.in
index 040a0febe8..32deb52e26 100644
--- a/units/systemd-modules-load.service.in
+++ b/units/systemd-modules-load.service.in
@@ -10,6 +10,7 @@ Description=Load Kernel Modules
Documentation=man:systemd-modules-load.service(8) man:modules-load.d(5)
DefaultDependencies=no
Conflicts=shutdown.target
+After=systemd-readahead-collect.service systemd-readahead-replay.service
Before=sysinit.target shutdown.target
```

```
ConditionCapability=CAP_SYS_MODULE
ConditionDirectoryNotEmpty=|/lib/modules-load.d
diff --git a/units/systemd-quotacheck.service.in b/units/systemd-quotacheck.service.in
index 5cb9bc3bc9..f726ea1bcd 100644
--- a/units/systemd-quotacheck.service.in
+++ b/units/systemd-quotacheck.service.in
@@ -9,7 +9,7 @@
Description=File System Quota Check
Documentation=man:systemd-quotacheck.service(8)
 DefaultDependencies=no
-After=systemd-remount-fs.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service
Before=local-fs.target shutdown.target
ConditionPathExists=@QUOTACHECK@

diff --git a/units/systemd-random-seed.service.in b/units/systemd-random-seed.service.in
index b55844b36f..1879b2f24c 100644
--- a/units/systemd-random-seed.service.in
+++ b/units/systemd-random-seed.service.in
@@ -11,7 +11,7 @@ Documentation=man:systemd-random-seed.service(8) man:random(4)
DefaultDependencies=no
RequiresMountsFor=@RANDOM_SEED@
Conflicts=shutdown.target
-After=systemd-remount-fs.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service
Before=sysinit.target shutdown.target

[Service]
diff --git a/units/systemd-readahead-collect.service.in b/units/systemd-readahead-collect.service.in
new file mode 100644
index 0000000000..d4b8e67932
--- /dev/null
+++ b/units/systemd-readahead-collect.service.in
@@
 -0,0 +1,28 @@
+#  This file is part of systemd.
+#
+#  systemd is free software; you can redistribute it and/or modify it
+#  under the terms of the GNU Lesser General Public License as published by
+#  the Free Software Foundation; either version 2.1 of the License, or
+#  (at your option) any later version.
+
+[Unit]
+Description=Collect Read-Ahead Data
+Documentation=man:systemd-readahead-replay.service(8)
+DefaultDependencies=no
+Wants=systemd-readahead-done.timer
+Conflicts=shutdown.target
```

```
+Before=sysinit.target shutdown.target
+ConditionPathExists=!/run/systemd/readahead/cancel
+ConditionPathExists=!/run/systemd/readahead/done
+ConditionVirtualization=no
+
+[Service]
+Type=notify
+ExecStart=@rootlibexecdir@/systemd-readahead collect
+RemainAfterExit=yes
+StandardOutput=null
+OOMScoreAdjust=1000
+
+[Install]
+WantedBy=default.target
+Also=systemd-readahead-drop.service
diff --git a/units/systemd-readahead-done.service.in b/units/systemd-readahead-done.service.in
new
 file mode 100644
index 0000000000..e0d9579449
--- /dev/null
+++ b/units/systemd-readahead-done.service.in
@@ -0,0 +1,22 @@
+#  This file is part of systemd.
+#
+#  systemd is free software; you can redistribute it and/or modify it
+#  under the terms of the GNU Lesser General Public License as published by
+#  the Free Software Foundation; either version 2.1 of the License, or
+#  (at your option) any later version.
+
+[Unit]
+Description=Stop Read-Ahead Data Collection
+Documentation=man:systemd-readahead-replay.service(8)
+DefaultDependencies=no
+Conflicts=shutdown.target
+After=default.target
+Before=shutdown.target
+ConditionVirtualization=no
+
+[Service]
+Type=oneshot
+ExecStart=@SYSTEMD_NOTIFY@ --readahead=done
+
+[Install]
+Also=systemd-readahead-collect.service
diff --git a/units/systemd-readahead-done.timer b/units/systemd-readahead-done.timer
new file mode 100644
index 0000000000..c58e09616e
--- /dev/null
```

```
+++ b/units/systemd-readahead-done.timer
@@ -0,0
 +1,22 @@
+#  This file is part of systemd.
+#
+#  systemd is free software; you can redistribute it and/or modify it
+#  under the terms of the GNU Lesser General Public License as published by
+#  the Free Software Foundation; either version 2.1 of the License, or
+#  (at your option) any later version.
+
+[Unit]
+Description=Stop Read-Ahead Data Collection 10s After Completed Startup
+Documentation=man:systemd-readahead-replay.service(8)
+DefaultDependencies=no
+Conflicts=shutdown.target
+After=default.target
+Before=shutdown.target
+ConditionVirtualization=no
+
+[Timer]
+OnActiveSec=30s
+AccuracySec=1s
+
+[Install]
+Also=systemd-readahead-collect.service
diff --git a/units/systemd-readahead-drop.service b/units/systemd-readahead-drop.service
new file mode 100644
index 0000000000..d9d12bc533
--- /dev/null
+++ b/units/systemd-readahead-drop.service
@@ -0,0 +1,19 @@
+#  This file is part of systemd.
+#
+#  systemd is free software; you can redistribute it and/or modify it
+#  under the
 terms of the GNU Lesser General Public License as published by
+#  the Free Software Foundation; either version 2.1 of the License, or
+#  (at your option) any later version.
+
+[Unit]
+Description=Drop Read-Ahead Data
+Documentation=man:systemd-readahead-replay.service(8)
+ConditionPathExists=/.readahead
+
+[Service]
+Type=oneshot
+ExecStart=/bin/rm -f /.readahead
+
```

```
+[Install]
+WantedBy=system-update.target
+Also=systemd-readahead-collect.service
diff --git a/units/systemd-readahead-replay.service.in b/units/systemd-readahead-replay.service.in
new file mode 100644
index 0000000000..c64a533e4e
--- /dev/null
+++ b/units/systemd-readahead-replay.service.in
@@ -0,0 +1,26 @@
+#  This file is part of systemd.
+#
+#  systemd is free software; you can redistribute it and/or modify it
+#  under the terms of the GNU Lesser General Public License as published by
+#  the Free Software Foundation; either version 2.1 of the License, or
+#  (at your option) any later version.
+
+[Unit]
+Description=Replay
 Read-Ahead Data
+Documentation=man:systemd-readahead-replay.service(8)
+DefaultDependencies=no
+Conflicts=shutdown.target
+Before=sysinit.target shutdown.target
+ConditionPathExists=!/run/systemd/readahead/noreplay
+ConditionPathExists=/.readahead
+ConditionVirtualization=no
+
+[Service]
+Type=notify
+ExecStart=@rootlibexecdir@/systemd-readahead replay
+RemainAfterExit=yes
+StandardOutput=null
+OOMScoreAdjust=1000
+
+[Install]
+WantedBy=default.target
diff --git a/units/systemd-remount-fs.service.in b/units/systemd-remount-fs.service.in
index 8d9daacaa5..70e1a8680a 100644
--- a/units/systemd-remount-fs.service.in
+++ b/units/systemd-remount-fs.service.in
@@ -11,7 +11,7 @@ Documentation=man:systemd-remount-fs.service(8)
Documentation=http://www.freedesktop.org/wiki/Software/systemd/APIFileSystems
DefaultDependencies=no
Conflicts=shutdown.target
-After=systemd-fsck-root.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-fsck-root.service
 Before=local-fs-pre.target local-fs.target shutdown.target
Wants=local-fs-pre.target
```

```
ConditionPathExists=/etc/fstab
diff --git a/units/systemd-rfkill@.service.in b/units/systemd-rfkill@.service.in
index b48efe5d99..0d2757d61c 100644
--- a/units/systemd-rfkill@.service.in
+++ b/units/systemd-rfkill@.service.in
@@ -12,7 +12,7 @@ DefaultDependencies=no
BindsTo=sys-subsystem-rfkill-devices-%i.device
RequiresMountsFor=/var/lib/systemd/rfkill
Conflicts=shutdown.target
-After=systemd-remount-fs.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service
Before=sysinit.target shutdown.target

[Service]
diff --git a/units/systemd-sysctl.service.in b/units/systemd-sysctl.service.in
index fa72085f9e..ade9dc3007 100644
--- a/units/systemd-sysctl.service.in
+++ b/units/systemd-sysctl.service.in
@@ -10,6 +10,7 @@ Description=Apply Kernel Variables
Documentation=man:systemd-sysctl.service(8) man:sysctl.d(5)
DefaultDependencies=no
Conflicts=shutdown.target
+After=systemd-readahead-collect.service
 systemd-readahead-replay.service
After=systemd-modules-load.service
Before=sysinit.target shutdown.target
ConditionPathIsReadWrite=/proc/sys/
diff --git a/units/systemd-sysusers.service.in b/units/systemd-sysusers.service.in
index ffd6d7747b..69fea11fb1 100644
--- a/units/systemd-sysusers.service.in
+++ b/units/systemd-sysusers.service.in
@@ -10,7 +10,7 @@ Description=Create System Users
Documentation=man:sysusers.d(5) man:systemd-sysusers.service(8)
DefaultDependencies=no
Conflicts=shutdown.target
-After=systemd-remount-fs.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service
Before=sysinit.target shutdown.target systemd-update-done.service
ConditionNeedsUpdate=/etc

diff --git a/units/systemd-tmpfiles-clean.service.in b/units/systemd-tmpfiles-clean.service.in
index 133c8c94c4..31b2378410 100644
--- a/units/systemd-tmpfiles-clean.service.in
+++ b/units/systemd-tmpfiles-clean.service.in
@@
 -10,7 +10,7 @@ Description=Cleanup of Temporary Directories
Documentation=man:tmpfiles.d(5) man:systemd-tmpfiles(8)
DefaultDependencies=no
```

Conflicts=shutdown.target
-After=local-fs.target time-sync.target
+After=systemd-readahead-collect.service systemd-readahead-replay.service local-fs.target time-sync.target
Before=shutdown.target

[Service]
diff --git a/units/systemd-tmpfiles-setup-dev.service.in b/units/systemd-tmpfiles-setup-dev.service.in
index 0123a030e4..0b66c53fe0 100644
--- a/units/systemd-tmpfiles-setup-dev.service.in
+++ b/units/systemd-tmpfiles-setup-dev.service.in
@@ -10,7 +10,7 @@ Description=Create Static Device Nodes in /dev
Documentation=man:tmpfiles.d(5) man:systemd-tmpfiles(8)
DefaultDependencies=no
Conflicts=shutdown.target
-After=systemd-sysusers.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-sysusers.service
Before=sysinit.target local-fs-pre.target systemd-udevd.service shutdown.target
 ConditionCapability=CAP_SYS_MODULE

diff --git a/units/systemd-tmpfiles-setup.service.in b/units/systemd-tmpfiles-setup.service.in
index e895cda0e6..72ab083d54 100644
--- a/units/systemd-tmpfiles-setup.service.in
+++ b/units/systemd-tmpfiles-setup.service.in
@@ -10,7 +10,7 @@ Description=Create Volatile Files and Directories
Documentation=man:tmpfiles.d(5) man:systemd-tmpfiles(8)
DefaultDependencies=no
Conflicts=shutdown.target
-After=local-fs.target systemd-sysusers.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service local-fs.target systemd-sysusers.service
Before=sysinit.target shutdown.target
RefuseManualStop=yes

diff --git a/units/systemd-update-done.service.in b/units/systemd-update-done.service.in
index ec7d906392..7031bff614 100644
--- a/units/systemd-update-done.service.in
+++ b/units/systemd-update-done.service.in
@@ -10,7 +10,7 @@ Description=Update is Completed
Documentation=man:systemd-update-done.service(8)
DefaultDependencies=no
 Conflicts=shutdown.target
-After=local-fs.target
+After=systemd-readahead-collect.service systemd-readahead-replay.service local-fs.target
Before=sysinit.target shutdown.target
ConditionNeedsUpdate=|/etc
ConditionNeedsUpdate=|/var
diff --git a/units/systemd-update-utmp.service.in b/units/systemd-update-utmp.service.in
index 163eccd91f..da7dda76ba 100644

```
--- a/units/systemd-update-utmp.service.in
+++ b/units/systemd-update-utmp.service.in
@@ -11,7 +11,7 @@ Documentation=man:systemd-update-utmp.service(8) man:utmp(5)
DefaultDependencies=no
RequiresMountsFor=/var/log/wtmp
Conflicts=shutdown.target
-After=systemd-remount-fs.service systemd-tmpfiles-setup.service auditd.service
+After=systemd-readahead-collect.service systemd-readahead-replay.service systemd-remount-fs.service systemd-tmpfiles-setup.service auditd.service
Before=sysinit.target shutdown.target

[Service]
diff --git a/units/systemd-vconsole-setup.service.in b/units/systemd-vconsole-setup.service.in
index 6160361871..18faa63f28
 100644
--- a/units/systemd-vconsole-setup.service.in
+++ b/units/systemd-vconsole-setup.service.in
@@ -10,6 +10,7 @@ Description=Setup Virtual Console
Documentation=man:systemd-vconsole-setup.service(8) man:vconsole.conf(5)
DefaultDependencies=no
Conflicts=shutdown.target
+After=systemd-readahead-collect.service systemd-readahead-replay.service
Before=sysinit.target shutdown.target
ConditionPathExists=/dev/tty0

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0010-Revert-readahead-wipe-out-readahead.patch
No license file was found, but licenses were detected in source scan.

From c45af40e61ab34508862f9e668f47cc6eb2f6d45 Mon Sep 17 00:00:00 2001
From: Lukas Nykryn <lnykryn@redhat.com>
Date: Thu, 16 Apr 2015 10:50:10 +0200
Subject: [PATCH] journal: remove audit socket unit-files

---
Makefile.am                     |  6 ++----
units/systemd-journald-audit.socket | 19 -------------------
units/systemd-journald.service.in   |  4 ++--
3 files changed, 4 insertions(+), 25 deletions(-)
delete mode 100644 units/systemd-journald-audit.socket

diff --git a/Makefile.am b/Makefile.am
index bec32c39e5..6d6b650f24 100644
--- a/Makefile.am
+++ b/Makefile.am
@@ -4518,8 +4518,7 @@ bin_PROGRAMS += \
```

```
dist_systemunit_DATA += \
 units/systemd-journald.socket \
- units/systemd-journald-dev-log.socket \
- units/systemd-journald-audit.socket
+ units/systemd-journald-dev-log.socket

nodist_systemunit_DATA += \
 units/systemd-journald.service \
@@ -4539,8 +4538,7 @@ dist_catalog_DATA = \

SOCKETS_TARGET_WANTS
 += \
 systemd-journald.socket \
- systemd-journald-dev-log.socket \
- systemd-journald-audit.socket
+ systemd-journald-dev-log.socket

SYSINIT_TARGET_WANTS += \
 systemd-journald.service \
diff --git a/units/systemd-journald-audit.socket b/units/systemd-journald-audit.socket
deleted file mode 100644
index 35397aaeb8..0000000000
--- a/units/systemd-journald-audit.socket
+++ /dev/null
@@ -1,19 +0,0 @@
-#  This file is part of systemd.
-#
-#  systemd is free software; you can redistribute it and/or modify it
-#  under the terms of the GNU Lesser General Public License as published by
-#  the Free Software Foundation; either version 2.1 of the License, or
-#  (at your option) any later version.
-
-[Unit]
-Description=Journal Audit Socket
-Documentation=man:systemd-journald.service(8) man:journald.conf(5)
-DefaultDependencies=no
-Before=sockets.target
-ConditionSecurity=audit
-
-[Socket]
-Service=systemd-journald.service
-ReceiveBuffer=128M
-ListenNetlink=audit 1
-PassCredentials=yes
diff
 --git a/units/systemd-journald.service.in b/units/systemd-journald.service.in
index 87704bb9c1..1bcc290ec4 100644
--- a/units/systemd-journald.service.in
```

```
+++ b/units/systemd-journald.service.in
@@ -10,12 +10,12 @@ Description=Journal Service
Documentation=man:systemd-journald.service(8) man:journald.conf(5)
DefaultDependencies=no
Requires=systemd-journald.socket
-After=systemd-journald.socket systemd-journald-dev-log.socket systemd-journald-audit.socket syslog.socket
+After=systemd-journald.socket systemd-journald-dev-log.socket syslog.socket
Before=sysinit.target

[Service]
Type=notify
-Sockets=systemd-journald.socket systemd-journald-dev-log.socket systemd-journald-audit.socket
+Sockets=systemd-journald.socket systemd-journald-dev-log.socket
ExecStart=@rootlibexecdir@/systemd-journald
Restart=always
RestartSec=0
```

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0127-journal-remove-audit-socket-unit-files.patch
No license file was found, but licenses were detected in source scan.

From 272378080241106862a9cca2e4e84857fe1aaf5c Mon Sep 17 00:00:00 2001
From: Lennart Poettering <lennart@poettering.net>
Date: Thu, 8 Oct 2015 22:31:56 +0200
Subject: [PATCH] install: follow unit file symlinks in /usr, but not /etc when
looking for [Install] data

Some distributions use alias unit files via symlinks in /usr to cover
for legacy service names. With this change we'll allow "systemctl
enable" on such aliases.

Previously, our rule was that symlinks are user configuration that
"systemctl enable" + "systemctl disable" creates and removes, while unit
files is where the instructions to do so are store. As a result of the
rule we'd never read install information through symlinks, since that
would mix enablement state with installation instructions.

Now, the new rule is that only symlinks inside of /etc are
configuration. Unit files, and symlinks in /usr are now valid for
installation instructions.

This patch
 is quite a rework of the whole install logic, and makes the
following addional changes:

- Adds a complete test "test-instal-root" that tests the install logic
 pretty comprehensively.

- Never uses canonicalize_file_name(), because that's incompatible with
 operation relative to a specific root directory.

- unit_file_get_state() is reworked to return a proper error, and
 returns the state in a call-by-ref parameter. This cleans up confusion
 between the enum type and errno-like errors.

- The new logic puts a limit on how long to follow unit file symlinks:
 it will do so only for 64 steps at max.

- The InstallContext object's fields are renamed to will_process and
 has_processed (will_install and has_installed) since they are also
 used for deinstallation and all kinds of other operations.

- The root directory is always verified before use.

- install.c is reordered to place the exported functions together.

- Stricter rules are followed when traversing symlinks: the unit
 suffix
 must say identical, and it's not allowed to link between regular units
 and templated units.

- Various modernizations

- The "invalid" unit file state has been renamed to "bad", in order to
 avoid confusion between UNIT_FILE_INVALID and
 _UNIT_FILE_STATE_INVALID. Given that the state should normally not be
 seen and is not documented this should not be a problematic change.
 The new name is now documented however.

Fixes #1375, #1718, #1706

Cherry-picked from: 79413b673b45adc98dfeaec882bbdda2343cb2f9
Resolves: #1159308

Makefile.am | 12 +-
man/systemctl.xml | 14 +-
src/core/dbus-manager.c | 6 +-
src/core/dbus-unit.c | 4 +-
src/core/load-fragment.c | 2 +-
src/core/manager.c | 2 +-
src/core/snapshot.c | 2 +-
src/core/unit.c | 19 +-
src/dbus1-generator/dbus1-generator.c | 2 +-
src/firstboot/firstboot.c

```
          |  18 +-
src/shared/cgroup-util.c           |   6 +-
src/shared/install.c               | 1909 +++++++++++++++----------
src/shared/install.h               |  46 +-
src/shared/path-util.c             |  34 +
src/shared/path-util.h             |  27 +
src/shared/unit-name.c             |  32 +-
src/shared/unit-name.h             |  14 +-
src/shared/util.c                  |  21 +
src/shared/util.h                  |   1 +
src/systemctl/systemctl.c          |   6 +-
src/sysv-generator/sysv-generator.c |  10 +-
src/test/test-install-root.c       | 663 +++++++++
src/test/test-install.c            |  71 +-
23 files changed, 1998 insertions(+), 923 deletions(-)
create mode 100644 src/test/test-install-root.c

diff --git a/Makefile.am b/Makefile.am
index 3af720bdae..3a09e0a62b 100644
--- a/Makefile.am
+++ b/Makefile.am
@@ -1427,7 +1427,8 @@ tests += \
 	test-copy \
 	test-cap-list \
 	test-sigbus \
-	test-verbs
+	test-verbs \
+	test-install-root

 EXTRA_DIST += \
 	test/a.service \
@@ -1721,6 +1722,15 @@ test_verbs_SOURCES = \
 test_verbs_LDADD = \
 	libsystemd-shared.la

+test_install_root_SOURCES = \
+	src/test/test-install-root.c
+
+test_install_root_LDADD = \
+	libsystemd-units.la \
+	libsystemd-label.la \
+	libsystemd-internal.la \
+	libsystemd-shared.la
+
 test_namespace_LDADD = \
 	libsystemd-core.la
```

```
diff --git a/man/systemctl.xml b/man/systemctl.xml
index c6f5842786..2d0678d18d 100644
--- a/man/systemctl.xml
+++ b/man/systemctl.xml
@@ -905,10 +905,11 @@ kobject-uevent 1 systemd-udevd-kernel.socket systemd-udevd.service
         <term><command>list-unit-files
<optional><replaceable>PATTERN...</replaceable></optional></command></term>

         <listitem>
-          <para>List installed unit files. If one or more
-          <replaceable>PATTERN</replaceable>s are specified, only
-          units whose filename (just the last component of the path)
-          matches
- one of them are shown.</para>
+          <para>List installed unit files and their enablement state
+          (as reported by <command>is-enabled</command>). If one or
+          more <replaceable>PATTERN</replaceable>s are specified,
+          only units whose filename (just the last component of the
+          path) matches one of them are shown.</para>
         </listitem>
       </varlistentry>

@@ -1108,6 +1109,11 @@ kobject-uevent 1 systemd-udevd-kernel.socket systemd-udevd.service
               <entry>Unit file is not enabled.</entry>
               <entry>1</entry>
             </row>
+            <row>
+              <entry><literal>bad</literal></entry>
+              <entry>Unit file is invalid or another error occured. Note that <command>is-enabled</command> wil
not actually return this state, but print an error message instead. However the unit file listing printed by
<command>list-unit-files</command> might show
 it.</entry>
+              <entry>&gt; 0</entry>
+            </row>
           </tbody>
         </tgroup>
       </table>
diff --git a/src/core/dbus-manager.c b/src/core/dbus-manager.c
index 1ec350e034..faa124d926 100644
--- a/src/core/dbus-manager.c
+++ b/src/core/dbus-manager.c
@@ -1530,9 +1530,9 @@ static int method_get_unit_file_state(sd_bus *bus, sd_bus_message *message, void

       scope = m->running_as == SYSTEMD_SYSTEM ? UNIT_FILE_SYSTEM : UNIT_FILE_USER;

-       state = unit_file_get_state(scope, NULL, name);
-       if (state < 0)
-               return state;
```

```
+       r = unit_file_get_state(scope, NULL, name, &state);
+       if (r < 0)
+               return r;

        return sd_bus_reply_method_return(message, "s", unit_file_state_to_string(state));
}
diff --git a/src/core/dbus-unit.c b/src/core/dbus-unit.c
index 625d21ab8b..227915efc2 100644
--- a/src/core/dbus-unit.c
+++ b/src/core/dbus-unit.c
@@ -919,7 +919,7 @@ static int
 bus_unit_set_transient_property(
                if (r < 0)
                        return r;

-               if (!unit_name_is_valid(s, TEMPLATE_INVALID) || !endswith(s, ".slice"))
+               if (!unit_name_is_valid(s, UNIT_NAME_PLAIN) || !endswith(s, ".slice"))
                        return sd_bus_error_setf(error, SD_BUS_ERROR_INVALID_ARGS, "Invalid slice name %s", s);

                if (isempty(s)) {
@@ -967,7 +967,7 @@ static int bus_unit_set_transient_property(
                        return r;

                while ((r = sd_bus_message_read(message, "s", &other)) > 0) {
-                       if (!unit_name_is_valid(other, TEMPLATE_INVALID))
+                       if (!unit_name_is_valid(other, UNIT_NAME_PLAIN|UNIT_NAME_INSTANCE))
                                return sd_bus_error_setf(error, SD_BUS_ERROR_INVALID_ARGS, "Invalid unit name %s",
other);

                        if (mode != UNIT_CHECK) {
diff --git a/src/core/load-fragment.c b/src/core/load-fragment.c
index
 ec4cf4eefa..70c09188a3 100644
--- a/src/core/load-fragment.c
+++ b/src/core/load-fragment.c
@@ -3409,7 +3409,7 @@ static int open_follow(char **filename, FILE **_f, Set *names, char **_final) {
                 * unit name. */
                name = basename(*filename);

-               if (unit_name_is_valid(name, TEMPLATE_VALID)) {
+               if (unit_name_is_valid(name, UNIT_NAME_ANY)) {

                        id = set_get(names, name);
                        if (!id) {
diff --git a/src/core/manager.c b/src/core/manager.c
index 7483a96ec6..bde17ce0be 100644
--- a/src/core/manager.c
+++ b/src/core/manager.c
```

```
@@ -1328,7 +1328,7 @@ int manager_load_unit_prepare(

        t = unit_name_to_type(name);

-       if (t == _UNIT_TYPE_INVALID || !unit_name_is_valid(name, TEMPLATE_INVALID))
+       if (t == _UNIT_TYPE_INVALID || !unit_name_is_valid(name,
UNIT_NAME_PLAIN|UNIT_NAME_INSTANCE))
                return sd_bus_error_setf(e, SD_BUS_ERROR_INVALID_ARGS,
 "Unit name %s is not valid.", name);

        ret = manager_get_unit(m, name);
diff --git a/src/core/snapshot.c b/src/core/snapshot.c
index b1d8448771..f222ec232f 100644
--- a/src/core/snapshot.c
+++ b/src/core/snapshot.c
@@ -201,7 +201,7 @@ int snapshot_create(Manager *m, const char *name, bool cleanup, sd_bus_error *e,
        assert(_s);

        if (name) {
-               if (!unit_name_is_valid(name, TEMPLATE_INVALID))
+               if (!unit_name_is_valid(name, UNIT_NAME_PLAIN))
                        return sd_bus_error_setf(e, SD_BUS_ERROR_INVALID_ARGS, "Unit name %s is not valid.",
name);

                if (unit_name_to_type(name) != UNIT_SNAPSHOT)
diff --git a/src/core/unit.c b/src/core/unit.c
index 4fb2fd3001..db5aa987ec 100644
--- a/src/core/unit.c
+++ b/src/core/unit.c
@@ -158,7 +158,7 @@ int unit_add_name(Unit *u, const char *text) {
        if (!s)
                return -ENOMEM;

-       if (!unit_name_is_valid(s, TEMPLATE_INVALID))
+
   if (!unit_name_is_valid(s, UNIT_NAME_PLAIN|UNIT_NAME_INSTANCE))
                return -EINVAL;

        assert_se((t = unit_name_to_type(s)) >= 0);
@@ -3119,12 +3119,18 @@ int unit_following_set(Unit *u, Set **s) {
}

UnitFileState unit_get_unit_file_state(Unit *u) {
+       int r;
+
        assert(u);

-       if (u->unit_file_state < 0 && u->fragment_path)
```

```
-               u->unit_file_state = unit_file_get_state(
-                               u->manager->running_as == SYSTEMD_SYSTEM ? UNIT_FILE_SYSTEM :
UNIT_FILE_USER,
-                               NULL, basename(u->fragment_path));
+       if (u->unit_file_state < 0 && u->fragment_path) {
+               r = unit_file_get_state(u->manager->running_as == SYSTEMD_SYSTEM ? UNIT_FILE_SYSTEM :
UNIT_FILE_USER,
+                                       NULL,
+                                       basename(u->fragment_path),
+                                       &u->unit_file_state);
+               if (r < 0)
+
                        u->unit_file_state = UNIT_FILE_BAD;
+       }

        return u->unit_file_state;
}
@@ -3135,7 +3141,8 @@ int unit_get_unit_file_preset(Unit *u) {
        if (u->unit_file_preset < 0 && u->fragment_path)
                u->unit_file_preset = unit_file_query_preset(
                                u->manager->running_as == SYSTEMD_SYSTEM ? UNIT_FILE_SYSTEM :
UNIT_FILE_USER,
-                               NULL, basename(u->fragment_path));
+                               NULL,
+                               basename(u->fragment_path));

        return u->unit_file_preset;
}
diff --git a/src/dbus1-generator/dbus1-generator.c b/src/dbus1-generator/dbus1-generator.c
index 2e08af2df2..c909a4b1da 100644
--- a/src/dbus1-generator/dbus1-generator.c
+++ b/src/dbus1-generator/dbus1-generator.c
@@ -188,7 +188,7 @@ static int add_dbus(const char *path, const char *fname, const char *type) {
        }

        if (service) {
-               if (!unit_name_is_valid(service,
 TEMPLATE_INVALID)) {
+               if (!unit_name_is_valid(service, UNIT_NAME_PLAIN|UNIT_NAME_INSTANCE)) {
                        log_warning("Unit name %s is not valid, ignoring.", service);
                        return 0;
                }
diff --git a/src/firstboot/firstboot.c b/src/firstboot/firstboot.c
index a37ca170fb..b77c1d8879 100644
--- a/src/firstboot/firstboot.c
+++ b/src/firstboot/firstboot.c
@@ -50,8 +50,6 @@ static bool arg_copy_locale = false;
static bool arg_copy_timezone = false;
```

```
static bool arg_copy_root_password = false;

-#define prefix_roota(p) (arg_root ? (const char*) strjoina(arg_root, p) : (const char*) p)
-
static void clear_string(char *x) {

        if (!x)
@@ -85,13 +83,13 @@ static void print_welcome(void) {
        if (done)
                return;

-       os_release = prefix_roota("/etc/os-release");
+       os_release = prefix_roota(arg_root, "/etc/os-release");
        r = parse_env_file(os_release, NEWLINE,

                           "PRETTY_NAME", &pretty_name,
                           NULL);
        if (r == -ENOENT) {

-               os_release = prefix_roota("/usr/lib/os-release");
+               os_release = prefix_roota(arg_root, "/usr/lib/os-release");
                r = parse_env_file(os_release, NEWLINE,
                                   "PRETTY_NAME", &pretty_name,
                                   NULL);
@@ -249,7 +247,7 @@ static int process_locale(void) {
        unsigned i = 0;
        int r;

-       etc_localeconf = prefix_roota("/etc/locale.conf");
+       etc_localeconf = prefix_roota(arg_root, "/etc/locale.conf");
        if (faccessat(AT_FDCWD, etc_localeconf, F_OK, AT_SYMLINK_NOFOLLOW) >= 0)
                return 0;

@@ -323,7 +321,7 @@ static int process_timezone(void) {
        const char *etc_localtime, *e;
        int r;

-       etc_localtime = prefix_roota("/etc/localtime");
+       etc_localtime = prefix_roota(arg_root, "/etc/localtime");
        if (faccessat(AT_FDCWD, etc_localtime, F_OK, AT_SYMLINK_NOFOLLOW) >= 0)
                return 0;

@@ -402,7 +400,7 @@ static int process_hostname(void) {
        const char *etc_hostname;
        int r;

-       etc_hostname = prefix_roota("/etc/hostname");
+       etc_hostname = prefix_roota(arg_root, "/etc/hostname");
```

```
        if (faccessat(AT_FDCWD, etc_hostname, F_OK, AT_SYMLINK_NOFOLLOW) >= 0)
                return 0;

@@ -427,7 +425,7 @@ static int process_machine_id(void) {
        char id[SD_ID128_STRING_MAX];
        int r;

-       etc_machine_id = prefix_roota("/etc/machine-id");
+       etc_machine_id = prefix_roota(arg_root, "/etc/machine-id");
        if (faccessat(AT_FDCWD, etc_machine_id, F_OK, AT_SYMLINK_NOFOLLOW) >= 0)
                return 0;

@@ -453,7 +451,7 @@ static int prompt_root_password(void) {
        if (!arg_prompt_root_password)
                return 0;

-       etc_shadow = prefix_roota("/etc/shadow");
+       etc_shadow
 = prefix_roota(arg_root, "/etc/shadow");
        if (faccessat(AT_FDCWD, etc_shadow, F_OK, AT_SYMLINK_NOFOLLOW) >= 0)
                return 0;

@@ -542,7 +540,7 @@ static int process_root_password(void) {
        const char *etc_shadow;
        int r;

-       etc_shadow = prefix_roota("/etc/shadow");
+       etc_shadow = prefix_roota(arg_root, "/etc/shadow");
        if (faccessat(AT_FDCWD, etc_shadow, F_OK, AT_SYMLINK_NOFOLLOW) >= 0)
                return 0;

diff --git a/src/shared/cgroup-util.c b/src/shared/cgroup-util.c
index dfd8689b72..cf757d2b23 100644
--- a/src/shared/cgroup-util.c
+++ b/src/shared/cgroup-util.c
@@ -1147,7 +1147,7 @@ int cg_path_decode_unit(const char *cgroup, char **unit){
        c = strndupa(cgroup, e - cgroup);
        c = cg_unescape(c);

-       if (!unit_name_is_valid(c, TEMPLATE_INVALID))
+       if (!unit_name_is_valid(c, UNIT_NAME_PLAIN|UNIT_NAME_INSTANCE))
                return -EINVAL;

        s = strdup(c);
@@ -1536,7 +1536,7
 @@ int cg_slice_to_path(const char *unit, char **ret) {
        assert(unit);
        assert(ret);
```

```
-       if (!unit_name_is_valid(unit, TEMPLATE_INVALID))
+       if (!unit_name_is_valid(unit, UNIT_NAME_PLAIN))
                return -EINVAL;

        if (!endswith(unit, ".slice"))
@@ -1553,7 +1553,7 @@ int cg_slice_to_path(const char *unit, char **ret) {

                strcpy(stpncpy(n, p, dash - p), ".slice");

-               if (!unit_name_is_valid(n, TEMPLATE_INVALID))
+               if (!unit_name_is_valid(n, UNIT_NAME_PLAIN))
                        return -EINVAL;

                escaped = cg_escape(n);
diff --git a/src/shared/install.c b/src/shared/install.c
index aa197e91b9..5288bb4501 100644
--- a/src/shared/install.c
+++ b/src/shared/install.c
@@ -39,15 +39,24 @@
#include "specifier.h"
#include "install-printf.h"
#include "special.h"
+#include "fileio.h"
+
+#define UNIT_FILE_FOLLOW_SYMLINK_MAX 64
+
+typedef enum SearchFlags {
+       SEARCH_LOAD
 = 1,
+       SEARCH_FOLLOW_CONFIG_SYMLINKS = 2,
+} SearchFlags;

typedef struct {
-       OrderedHashmap *will_install;
-       OrderedHashmap *have_installed;
+       OrderedHashmap *will_process;
+       OrderedHashmap *have_processed;
} InstallContext;

static int in_search_path(const char *path, char **search) {
        _cleanup_free_ char *parent = NULL;
        int r;
+       char **i;

        assert(path);

@@ -55,7 +64,11 @@ static int in_search_path(const char *path, char **search) {
```

```
        if (r < 0)
                return r;

-       return strv_contains(search, parent);
+       STRV_FOREACH(i, search)
+               if (path_equal(parent, *i))
+                       return true;
+
+       return false;
}

static int get_config_path(UnitFileScope scope, bool runtime, const char *root_dir, char **ret) {
@@ -66,6 +79,9 @@ static int get_config_path(UnitFileScope scope, bool runtime, const char *root_d
        assert(scope < _UNIT_FILE_SCOPE_MAX);
        assert(ret);

+       /* This determines where we shall create or remove our
+        * installation ("configuration") symlinks */
+
        switch (scope) {

        case UNIT_FILE_SYSTEM:
@@ -113,6 +129,186 @@ static int get_config_path(UnitFileScope scope, bool runtime, const char *root_d
        return 0;
}

+static bool is_config_path(UnitFileScope scope, const char *path) {
+       int r;
+
+       assert(scope >= 0);
+       assert(scope < _UNIT_FILE_SCOPE_MAX);
+       assert(path);
+
+       /* Checks whether the specified path is intended for
+        * configuration or is outside of it */
+
+       switch (scope) {
+
+       case UNIT_FILE_SYSTEM:
+       case UNIT_FILE_GLOBAL:
+               return path_startswith(path, "/etc") ||
+                       path_startswith(path, SYSTEM_CONFIG_UNIT_PATH) ||
+                       path_startswith(path, "/run");
+
+
+       case UNIT_FILE_USER: {
+               _cleanup_free_ char *p = NULL;
+
```

```
+
            r = user_config_home(&p);
+             if (r < 0)
+                   return r;
+             if (r > 0 && path_startswith(path, p))
+                   return true;
+
+             free(p);
+             p = NULL;
+
+             r = user_runtime_dir(&p);
+             if (r < 0)
+                   return r;
+             if (r > 0 && path_startswith(path, p))
+                   return true;
+
+             return false;
+       }
+
+       default:
+             assert_not_reached("Bad scope");
+       }
+}
+
+
+static int verify_root_dir(UnitFileScope scope, const char **root_dir) {
+       int r;
+
+       assert(root_dir);
+
+       /* Verifies that the specified root directory to operate on
+        * makes sense. Reset it to NULL if it is the root directory
+        * or set to empty */
+
+       if (isempty(*root_dir) || path_equal(*root_dir, "/")) {
+             *root_dir = NULL;
+
    return 0;
+       }
+
+       if (scope != UNIT_FILE_SYSTEM)
+             return -EINVAL;
+
+       r = is_dir(*root_dir, true);
+       if (r < 0)
+             return r;
+       if (r == 0)
+             return -ENOTDIR;
```

```
+
+       return 0;
+}
+
+int unit_file_changes_add(
+               UnitFileChange **changes,
+               unsigned *n_changes,
+               UnitFileChangeType type,
+               const char *path,
+               const char *source) {
+
+       UnitFileChange *c;
+       unsigned i;
+
+       assert(path);
+       assert(!changes == !n_changes);
+
+       if (!changes)
+               return 0;
+
+       c = realloc(*changes, (*n_changes + 1) * sizeof(UnitFileChange));
+       if (!c)
+               return -ENOMEM;
+
+       *changes = c;
+       i = *n_changes;
+
+       c[i].type = type;
+       c[i].path = strdup(path);
+       if (!c[i].path)
+               return -ENOMEM;
+
+       path_kill_slashes(c[i].path);
+
+
      if (source) {
+               c[i].source = strdup(source);
+               if (!c[i].source) {
+                       free(c[i].path);
+                       return -ENOMEM;
+               }
+
+               path_kill_slashes(c[i].path);
+       } else
+               c[i].source = NULL;
+
+       *n_changes = i+1;
+       return 0;
```

```
+}
+
+void unit_file_changes_free(UnitFileChange *changes, unsigned n_changes) {
+        unsigned i;
+
+        assert(changes || n_changes == 0);
+
+        if (!changes)
+                return;
+
+        for (i = 0; i < n_changes; i++) {
+                free(changes[i].path);
+                free(changes[i].source);
+        }
+
+        free(changes);
+}
+
+static int create_symlink(
+                const char *old_path,
+                const char *new_path,
+                bool force,
+                UnitFileChange **changes,
+                unsigned *n_changes) {
+
+        _cleanup_free_ char *dest = NULL;
+
   int r;
+
+        assert(old_path);
+        assert(new_path);
+
+        /* Actually create a symlink, and remember that we did. Is
+         * smart enough to check if there's already a valid symlink in
+         * place. */
+
+        mkdir_parents_label(new_path, 0755);
+
+        if (symlink(old_path, new_path) >= 0) {
+                unit_file_changes_add(changes, n_changes, UNIT_FILE_SYMLINK, new_path, old_path);
+                return 0;
+        }
+
+        if (errno != EEXIST)
+                return -errno;
+
+        r = readlink_malloc(new_path, &dest);
+        if (r < 0)
```

```
+                return r;
+
+        if (path_equal(dest, old_path))
+                return 0;
+
+        if (!force)
+                return -EEXIST;
+
+        r = symlink_atomic(old_path, new_path);
+        if (r < 0)
+                return r;
+
+        unit_file_changes_add(changes, n_changes, UNIT_FILE_UNLINK, new_path, NULL);
+        unit_file_changes_add(changes, n_changes, UNIT_FILE_SYMLINK,
 new_path, old_path);
+
+        return 0;
+}
+
static int mark_symlink_for_removal(
                Set **remove_symlinks_to,
                const char *p) {
@@ -136,7 +332,7 @@ static int mark_symlink_for_removal(
        if (r < 0)
                return r == -EEXIST ? 0 : r;

-       return 0;
+       return 1;
}

static int remove_marked_symlinks_fd(
@@ -144,10 +340,9 @@ static int remove_marked_symlinks_fd(
                int fd,
                const char *path,
                const char *config_path,
-               bool *deleted,
+               bool *restart,
                UnitFileChange **changes,
-               unsigned *n_changes,
-               char** instance_whitelist) {
+               unsigned *n_changes) {

        _cleanup_closedir_ DIR *d = NULL;
        int r = 0;
@@ -156,7 +351,7 @@ static int remove_marked_symlinks_fd(
        assert(fd >= 0);
        assert(path);
        assert(config_path);
```

```
-       assert(deleted);
+
        assert(restart);

        d = fdopendir(fd);
        if (!d) {
@@ -205,42 +400,23 @@ static int remove_marked_symlinks_fd(
                }

                /* This will close nfd, regardless whether it succeeds or not */
-                q = remove_marked_symlinks_fd(remove_symlinks_to, nfd, p, config_path, deleted, changes,
n_changes, instance_whitelist);
+                q = remove_marked_symlinks_fd(remove_symlinks_to, nfd, p, config_path, restart, changes,
n_changes);
                if (q < 0 && r == 0)
                        r = q;

        } else if (de->d_type == DT_LNK) {
                _cleanup_free_ char *p = NULL, *dest = NULL;
-                int q;
                bool found;
+                int q;

-                if (!unit_name_is_valid(de->d_name, TEMPLATE_VALID))
+                if (!unit_name_is_valid(de->d_name, UNIT_NAME_ANY))

                continue;

-                if (unit_name_is_instance(de->d_name) &&
-                    instance_whitelist &&
-                    !strv_contains(instance_whitelist, de->d_name)) {
-
-                        _cleanup_free_ char *w;
-
-                        /* OK, the file is not listed directly
-                         * in the whitelist, so let's check if
-                         * the template of it might be
-                         * listed. */
-
-                        w = unit_name_template(de->d_name);
-                        if (!w)
-                                return -ENOMEM;
-
-                        if (!strv_contains(instance_whitelist, w))
-                                continue;
-                }
-
                p = path_make_absolute(de->d_name, path);
```

```
                if (!p)

        return -ENOMEM;

-                q = readlink_and_canonicalize(p, &dest);
+                q = readlink_malloc(p, &dest);
                if (q < 0) {
                        if (q == -ENOENT)
                                continue;
@@ -250,9 +426,15 @@ static int remove_marked_symlinks_fd(
                        continue;
                }

+                /* We remove all links pointing to a file or
+                 * path that is marked, as well as all files
+                 * sharing the same name as a file that is
+                 * marked. */
+
                found =
-                        set_get(remove_symlinks_to, dest) ||
-                        set_get(remove_symlinks_to, basename(dest));
+                        set_contains(remove_symlinks_to, dest) ||
+                        set_contains(remove_symlinks_to, basename(dest))
 ||
+                        set_contains(remove_symlinks_to, de->d_name);

                if (!found)
                        continue;
@@ -264,18 +446,15 @@ static int remove_marked_symlinks_fd(
                }

                path_kill_slashes(p);
-                rmdir_parents(p, config_path);
-                unit_file_changes_add(changes, n_changes, UNIT_FILE_UNLINK, p, NULL);
+                (void) rmdir_parents(p, config_path);

-                if (!set_get(remove_symlinks_to, p)) {
+                unit_file_changes_add(changes, n_changes, UNIT_FILE_UNLINK, p, NULL);

-                        q = mark_symlink_for_removal(&remove_symlinks_to, p);
-                        if (q < 0) {
-                                if (r == 0)
-                                        r = q;
-                        } else
-
     *deleted = true;
-                }
+                q = mark_symlink_for_removal(&remove_symlinks_to, p);
```

```
+                       if (q < 0)
+                               return q;
+                       if (q > 0)
+                               *restart = true;
                }
        }

@@ -286,12 +465,11 @@ static int remove_marked_symlinks(
                Set *remove_symlinks_to,
                const char *config_path,
                UnitFileChange **changes,
-               unsigned *n_changes,
-               char** instance_whitelist) {
+               unsigned *n_changes) {

        _cleanup_close_ int fd = -1;
        int r = 0;
-       bool deleted;
+       bool restart;

        assert(config_path);

@@ -304,7 +482,7 @@ static int remove_marked_symlinks(

        do {
                int q, cfd;
-               deleted = false;
+               restart = false;

                cfd = fcntl(fd, F_DUPFD_CLOEXEC, 3);

                if (cfd < 0) {
@@ -313,15 +491,16 @@ static int remove_marked_symlinks(
                }

                /* This takes possession of cfd and closes it */
-               q = remove_marked_symlinks_fd(remove_symlinks_to, cfd, config_path, config_path, &deleted,
changes, n_changes, instance_whitelist);
+               q = remove_marked_symlinks_fd(remove_symlinks_to, cfd, config_path, config_path, &restart,
changes, n_changes);
                if (r == 0)
                        r = q;
-       } while (deleted);
+       } while (restart);

        return r;
}
```

```
static int find_symlinks_fd(
+               const char *root_dir,
                const char *name,
                int fd,
                const char *path,
@@ -380,7 +559,7 @@ static int find_symlinks_fd(
                        }

                        /* This will close nfd, regardless whether it succeeds or not */
-                       q = find_symlinks_fd(name, nfd, p, config_path,
 same_name_link);
+                       q = find_symlinks_fd(root_dir, name, nfd, p, config_path, same_name_link);
                        if (q > 0)
                                return 1;
                        if (r == 0)
@@ -397,7 +576,7 @@ static int find_symlinks_fd(
                                return -ENOMEM;

                        /* Acquire symlink destination */
-                       q = readlink_and_canonicalize(p, &dest);
+                       q = readlink_malloc(p, &dest);
                        if (q < 0) {
                                if (q == -ENOENT)
                                        continue;
@@ -407,6 +586,18 @@ static int find_symlinks_fd(
                                continue;
                        }

+                       /* Make absolute */
+                       if (!path_is_absolute(dest)) {
+                               char *x;
+
+                               x = prefix_root(root_dir, dest);
+
                        if (!x)
+                                       return -ENOMEM;
+
+                               free(dest);
+                               dest = x;
+                       }
+
                        /* Check if the symlink itself matches what we
                         * are looking for */
                        if (path_is_absolute(name))
@@ -442,6 +633,7 @@ static int find_symlinks_fd(
}

static int find_symlinks(
```

```
+                const char *root_dir,
                 const char *name,
                 const char *config_path,
                 bool *same_name_link) {
@@ -460,7 +652,7 @@ static int find_symlinks(
         }

         /* This takes possession of fd and closes it */
-        return find_symlinks_fd(name, fd, config_path, config_path, same_name_link);
+        return find_symlinks_fd(root_dir, name, fd, config_path, config_path, same_name_link);
 }

 static int find_symlinks_in_scope(
@@ -469,385 +661,104 @@ static int find_symlinks_in_scope(
                 const char *name,
                 UnitFileState *state) {

-        int r;
         _cleanup_free_ char *normal_path = NULL, *runtime_path = NULL;
         bool same_name_link_runtime = false, same_name_link = false;
+        int r;

         assert(scope >= 0);
         assert(scope < _UNIT_FILE_SCOPE_MAX);
         assert(name);

-        /* First look in runtime config path */
-        r = get_config_path(scope, true, root_dir, &normal_path);
+        /* First look in the normal config path */
+        r = get_config_path(scope, false, root_dir, &normal_path);
         if (r < 0)
                 return r;

-        r = find_symlinks(name, normal_path, &same_name_link_runtime);
+        r = find_symlinks(root_dir, name, normal_path, &same_name_link);
         if (r < 0)
                 return r;
-        else if (r > 0) {
-                *state = UNIT_FILE_ENABLED_RUNTIME;
+        if (r > 0) {
+                *state = UNIT_FILE_ENABLED;

                 return r;
         }

-        /* Then look in the normal config path */
-        r = get_config_path(scope, false, root_dir, &runtime_path);
+        /* Then look in runtime config path */
```

```
+       r = get_config_path(scope, true, root_dir, &runtime_path);
        if (r < 0)
                return r;

-       r = find_symlinks(name, runtime_path, &same_name_link);
+       r = find_symlinks(root_dir, name, runtime_path, &same_name_link_runtime);
        if (r < 0)
                return r;
-       else if (r > 0) {
-               *state = UNIT_FILE_ENABLED;
+       if (r > 0) {
+               *state = UNIT_FILE_ENABLED_RUNTIME;
                return r;
        }

        /* Hmm, we didn't find it, but maybe we found the same name
         * link? */
+       if (same_name_link) {
+               *state = UNIT_FILE_LINKED;
+               return 1;
+       }
        if (same_name_link_runtime) {
                *state = UNIT_FILE_LINKED_RUNTIME;

          return 1;
-       } else if (same_name_link) {
-               *state = UNIT_FILE_LINKED;
-               return 1;
        }

        return 0;
}

-int unit_file_mask(
-               UnitFileScope scope,
-               bool runtime,
-               const char *root_dir,
-               char **files,
-               bool force,
-               UnitFileChange **changes,
-               unsigned *n_changes) {
-
-       char **i;
-       _cleanup_free_ char *prefix = NULL;
-       int r;
+static void install_info_free(InstallInfo *i) {

-       assert(scope >= 0);
```

```
-       assert(scope < _UNIT_FILE_SCOPE_MAX);
+       if (!i)
+               return;

-       r = get_config_path(scope, runtime, root_dir, &prefix);
-       if (r < 0)
-               return r;
+       free(i->name);
+       free(i->path);
+       strv_free(i->aliases);
+       strv_free(i->wanted_by);
+       strv_free(i->required_by);
+       strv_free(i->also);
+       free(i->default_instance);
+
      free(i->symlink_target);
+       free(i);
+}

-       STRV_FOREACH(i, files) {
-               _cleanup_free_ char *path = NULL;
+static OrderedHashmap* install_info_hashmap_free(OrderedHashmap *m) {
+       InstallInfo *i;

-               if (!unit_name_is_valid(*i, TEMPLATE_VALID)) {
-                       if (r == 0)
-                               r = -EINVAL;
-                       continue;
-               }
+       while ((i = ordered_hashmap_steal_first(m)))
+               install_info_free(i);

-               path = path_make_absolute(*i, prefix);
-               if (!path) {
-                       r = -ENOMEM;
-                       break;
-               }
+       ordered_hashmap_free(m);

-               if (symlink("/dev/null", path) >= 0) {
-                       unit_file_changes_add(changes, n_changes, UNIT_FILE_SYMLINK, path, "/dev/null");
-                       continue;
-               }
+       return NULL;
+}

-               if (errno == EEXIST) {
+static void install_context_done(InstallContext *c) {
```

```
+       assert(c);

-                       if (null_or_empty_path(path) > 0)
-                               continue;
+       c->will_process = install_info_hashmap_free(c->will_process);
+       c->have_processed = install_info_hashmap_free(c->have_processed);
+}

-                       if (force) {
-                               if (symlink_atomic("/dev/null", path) >= 0) {
-                                       unit_file_changes_add(changes, n_changes, UNIT_FILE_UNLINK, path, NULL);
-                                       unit_file_changes_add(changes, n_changes, UNIT_FILE_SYMLINK, path, "/dev/null");
-                                       continue;
-                               }
-                       }
+static InstallInfo *install_info_find(InstallContext *c, const char *name) {
+       InstallInfo *i;

-                       if (r == 0)
-
                          r = -EEXIST;
-                       } else {
-                               if (r == 0)
-                                       r = -errno;
-                       }
-               }
+       i = ordered_hashmap_get(c->have_processed, name);
+       if (i)
+               return i;

-       return r;
-}
-
-int unit_file_unmask(
-               UnitFileScope scope,
-               bool runtime,
-               const char *root_dir,
-               char **files,
-               UnitFileChange **changes,
-               unsigned *n_changes) {
-
-       char **i, *config_path = NULL;
-       int r, q;
-       Set *remove_symlinks_to = NULL;
-
-       assert(scope >= 0);
-       assert(scope < _UNIT_FILE_SCOPE_MAX);
-
```

```
-       r = get_config_path(scope, runtime, root_dir, &config_path);
-       if (r < 0)
-               goto finish;
-
-       STRV_FOREACH(i, files) {
-               _cleanup_free_ char *path = NULL;
-
-               if (!unit_name_is_valid(*i, TEMPLATE_VALID)) {
-
                     if (r == 0)
-                            r = -EINVAL;
-                     continue;
-               }
-
-               path = path_make_absolute(*i, config_path);
-               if (!path) {
-                       r = -ENOMEM;
-                       break;
-               }
-
-               q = null_or_empty_path(path);
-               if (q > 0) {
-                       if (unlink(path) < 0)
-                               q = -errno;
-                       else {
-                               q = mark_symlink_for_removal(&remove_symlinks_to, path);
-                               unit_file_changes_add(changes, n_changes, UNIT_FILE_UNLINK, path, NULL);
-                       }
-               }
-
-               if (q != -ENOENT && r == 0)
-                       r = q;
-       }
-
-
-finish:
-       q = remove_marked_symlinks(remove_symlinks_to, config_path, changes, n_changes, files);
-       if (r == 0)
-
 r = q;
-
-       set_free_free(remove_symlinks_to);
-       free(config_path);
-
-       return r;
-}
-
-int unit_file_link(
```

```
-               UnitFileScope scope,
-               bool runtime,
-               const char *root_dir,
-               char **files,
-               bool force,
-               UnitFileChange **changes,
-               unsigned *n_changes) {
-
-       _cleanup_lookup_paths_free_ LookupPaths paths = {};
-       char **i;
-       _cleanup_free_ char *config_path = NULL;
-       int r, q;
-
-       assert(scope >= 0);
-       assert(scope < _UNIT_FILE_SCOPE_MAX);
-
-       r = lookup_paths_init_from_scope(&paths, scope, root_dir);
-       if (r < 0)
-               return r;
-
-       r = get_config_path(scope, runtime, root_dir, &config_path);
-       if (r < 0)
-               return r;
-
-       STRV_FOREACH(i, files) {
-               _cleanup_free_ char *path = NULL;
-               char *fn;
-               struct stat st;
-
-
         fn = basename(*i);
-
-               if (!path_is_absolute(*i) ||
-                   !unit_name_is_valid(fn, TEMPLATE_VALID)) {
-                       if (r == 0)
-                               r = -EINVAL;
-                       continue;
-               }
-
-               if (lstat(*i, &st) < 0) {
-                       if (r == 0)
-                               r = -errno;
-                       continue;
-               }
-
-               if (!S_ISREG(st.st_mode)) {
-                       r = -ENOENT;
-                       continue;
```

```
-               }
-
-               q = in_search_path(*i, paths.unit_path);
-               if (q < 0)
-                       return q;
-
-               if (q > 0)
-                       continue;
-
-               path = path_make_absolute(fn, config_path);
-               if (!path)
-                       return -ENOMEM;
-
-               if (symlink(*i, path) >= 0) {
-                       unit_file_changes_add(changes,
 n_changes, UNIT_FILE_SYMLINK, path, *i);
-                       continue;
-               }
-
-               if (errno == EEXIST) {
-                       _cleanup_free_ char *dest = NULL;
-
-                       q = readlink_and_make_absolute(path, &dest);
-                       if (q < 0 && errno != ENOENT) {
-                               if (r == 0)
-                                       r = q;
-                               continue;
-                       }
-
-                       if (q >= 0 && path_equal(dest, *i))
-                               continue;
-
-                       if (force) {
-                               if (symlink_atomic(*i, path) >= 0) {
-                                       unit_file_changes_add(changes, n_changes, UNIT_FILE_UNLINK, path, NULL);
-                                       unit_file_changes_add(changes, n_changes, UNIT_FILE_SYMLINK, path, *i);
-                                       continue;
-
                                }
-                       }
-
-                       if (r == 0)
-                               r = -EEXIST;
-               } else {
-                       if (r == 0)
-                               r = -errno;
-               }
-       }
```

```
-
-       return r;
-}
-
-void unit_file_list_free(Hashmap *h) {
-       UnitFileList *i;
-
-       while ((i = hashmap_steal_first(h))) {
-               free(i->path);
-               free(i);
-       }
-
-       hashmap_free(h);
-}
-
-int unit_file_changes_add(
-               UnitFileChange **changes,
-               unsigned *n_changes,
-               UnitFileChangeType type,
-               const char *path,
-               const char *source) {
-
-       UnitFileChange *c;
-       unsigned i;
-
-       assert(path);
-       assert(!changes == !n_changes);
-
-       if (!changes)
-               return 0;
-
-       c = realloc(*changes, (*n_changes + 1) * sizeof(UnitFileChange));
-
      if (!c)
-               return -ENOMEM;
-
-       *changes = c;
-       i = *n_changes;
-
-       c[i].type = type;
-       c[i].path = strdup(path);
-       if (!c[i].path)
-               return -ENOMEM;
-
-       path_kill_slashes(c[i].path);
-
-       if (source) {
-               c[i].source = strdup(source);
```

```
-                if (!c[i].source) {
-                        free(c[i].path);
-                        return -ENOMEM;
-                }
-
-                path_kill_slashes(c[i].path);
-        } else
-                c[i].source = NULL;
-
-        *n_changes = i+1;
-        return 0;
-}
-
-void unit_file_changes_free(UnitFileChange *changes, unsigned n_changes) {
-        unsigned i;
-
-        assert(changes || n_changes == 0);
-
-        if (!changes)
-                return;
-
-        for (i = 0; i < n_changes; i++) {
-                free(changes[i].path);
-                free(changes[i].source);
-        }
-
-        free(changes);
-}
-
-static
 void install_info_free(InstallInfo *i) {
-        assert(i);
-
-        free(i->name);
-        free(i->path);
-        strv_free(i->aliases);
-        strv_free(i->wanted_by);
-        strv_free(i->required_by);
-        strv_free(i->also);
-        free(i->default_instance);
-        free(i);
-}
-
-static void install_info_hashmap_free(OrderedHashmap *m) {
-        InstallInfo *i;
-
-        if (!m)
-                return;
```

```
-
-       while ((i = ordered_hashmap_steal_first(m)))
-               install_info_free(i);
-
-       ordered_hashmap_free(m);
-}
-
-static void install_context_done(InstallContext *c) {
-       assert(c);
-
-       install_info_hashmap_free(c->will_install);
-       install_info_hashmap_free(c->have_installed);
-
-       c->will_install = c->have_installed = NULL;
+       return ordered_hashmap_get(c->will_process, name);
}

static int install_info_add(
                InstallContext *c,
                const char *name,
-               const char
 *path) {
+               const char *path,
+               InstallInfo **ret) {
+
        InstallInfo *i = NULL;
        int r;

@@ -857,20 +768,24 @@ static int install_info_add(
        if (!name)
                name = basename(path);

-       if (!unit_name_is_valid(name, TEMPLATE_VALID))
+       if (!unit_name_is_valid(name, UNIT_NAME_ANY))
                return -EINVAL;

-       if (ordered_hashmap_get(c->have_installed, name) ||
-           ordered_hashmap_get(c->will_install, name))
+       i = install_info_find(c, name);
+       if (i) {
+               if (ret)
+                       *ret = i;
                return 0;
+       }

-       r = ordered_hashmap_ensure_allocated(&c->will_install, &string_hash_ops);
+       r = ordered_hashmap_ensure_allocated(&c->will_process, &string_hash_ops);
        if (r < 0)
```

```
                return r;

        i = new0(InstallInfo, 1);
        if (!i)
                return -ENOMEM;
+         i->type = _UNIT_FILE_TYPE_INVALID;

        i->name = strdup(name);
        if (!i->name) {
@@ -886,10 +801,13 @@ static int install_info_add(
                }
        }

-         r = ordered_hashmap_put(c->will_install, i->name, i);
+         r = ordered_hashmap_put(c->will_process, i->name, i);
        if (r < 0)
                goto fail;

+         if (ret)
+                 *ret = i;
+
        return 0;

fail:
@@ -901,15 +819,16 @@ fail:

static int install_info_add_auto(
                InstallContext *c,
-                const char *name_or_path) {
+                const char *name_or_path,
+                InstallInfo **ret) {

        assert(c);
        assert(name_or_path);

        if (path_is_absolute(name_or_path))
-                return install_info_add(c, NULL, name_or_path);
+                return install_info_add(c, NULL, name_or_path, ret);
        else
-                return install_info_add(c, name_or_path, NULL);
+                return install_info_add(c, name_or_path,
 NULL, ret);
}

static int config_parse_also(
@@ -928,6 +847,7 @@ static int config_parse_also(
        const char *word, *state;
        InstallContext *c = data;
```

```
        InstallInfo *i = userdata;
+       int r;

        assert(filename);
        assert(lvalue);
@@ -935,19 +855,20 @@ static int config_parse_also(

        FOREACH_WORD_QUOTED(word, l, rvalue, state) {
                _cleanup_free_ char *n;
-               int r;

                n = strndup(word, l);
                if (!n)
                        return -ENOMEM;

-               r = install_info_add(c, n, NULL);
+               r = install_info_add(c, n, NULL, NULL);
                if (r < 0)
                        return r;

-               r = strv_extend(&i->also, n);
+               r = strv_push(&i->also, n);
                if (r < 0)
                        return r;
+
+               n = NULL;
        }
        if (!isempty(state))
                log_syntax(unit,
 LOG_ERR, filename, line, EINVAL,
@@ -1026,9 +947,7 @@ static int unit_file_load(
                InstallInfo *info,
                const char *path,
                const char *root_dir,
-               bool allow_symlink,
-               bool load,
-               bool *also) {
+               SearchFlags flags) {

        const ConfigTableItem items[] = {
                { "Install", "Alias",           config_parse_strv,              0, &info->aliases           },
@@ -1041,7 +960,9 @@ static int unit_file_load(
        };

        _cleanup_fclose_ FILE *f = NULL;
-       int fd, r;
+       _cleanup_close_ int fd = -1;
+       struct stat st;
```

```
+       int r;

        assert(c);
        assert(info);
@@ -1050,20 +971,43 @@ static int unit_file_load(
        if (!isempty(root_dir))
                path = strjoina(root_dir, "/", path);

-       if (!load) {
-               r = access(path, F_OK) ? -errno : 0;
-               return r;
+       if (!(flags & SEARCH_LOAD))
+       {
+               r = lstat(path, &st);
+               if (r < 0)
+                       return -errno;
+
+               if (null_or_empty(&st))
+                       info->type = UNIT_FILE_TYPE_MASKED;
+               else if (S_ISREG(st.st_mode))
+                       info->type = UNIT_FILE_TYPE_REGULAR;
+               else if (S_ISLNK(st.st_mode))
+                       return -ELOOP;
+               else if (S_ISDIR(st.st_mode))
+                       return -EISDIR;
+               else
+                       return -ENOTTY;
+
+               return 0;
        }

-       fd = open(path, O_RDONLY|O_CLOEXEC|O_NOCTTY|(allow_symlink ? 0 : O_NOFOLLOW));
+       fd = open(path, O_RDONLY|O_CLOEXEC|O_NOCTTY|O_NOFOLLOW);
        if (fd < 0)
                return -errno;
+       if (fstat(fd, &st) < 0)
+               return -errno;
+       if (null_or_empty(&st)) {
+               info->type = UNIT_FILE_MASKED;
+               return 0;
+
+       }
+       if (S_ISDIR(st.st_mode))
+               return -EISDIR;
+       if (!S_ISREG(st.st_mode))
+               return -ENOTTY;

        f = fdopen(fd, "re");
```

```
-       if (!f) {
-               safe_close(fd);
-               return -ENOMEM;
-       }
+       if (!f)
+               return -errno;
+       fd = -1;

        r = config_parse(NULL, path, f,
                         NULL,
@@ -1072,8 +1016,7 @@ static int unit_file_load(
        if (r < 0)
                return r;

-       if (also)
-               *also = !strv_isempty(info->also);
+       info->type = UNIT_FILE_TYPE_REGULAR;

        return
                (int) strv_length(info->aliases) +
@@ -1081,14 +1024,73 @@ static int unit_file_load(
                (int) strv_length(info->required_by);
}

+static int unit_file_load_or_readlink(
+               InstallContext *c,
+               InstallInfo *info,
+               const char *path,
+               const char *root_dir,
+
        SearchFlags flags) {
+
+       _cleanup_free_ char *np = NULL;
+       int r;
+
+       r = unit_file_load(c, info, path, root_dir, flags);
+       if (r != -ELOOP)
+               return r;
+
+       /* This is a symlink, let's read it. */
+
+       r = readlink_and_make_absolute_root(root_dir, path, &np);
+       if (r < 0)
+               return r;
+
+       if (path_equal(np, "/dev/null"))
+               info->type = UNIT_FILE_TYPE_MASKED;
+       else {
```

```
+               const char *bn;
+               UnitType a, b;
+
+               bn = basename(np);
+
+               if (unit_name_is_valid(info->name, UNIT_NAME_PLAIN)) {
+
+                       if (!unit_name_is_valid(bn, UNIT_NAME_PLAIN))
+                               return -EINVAL;
+
+               } else if (unit_name_is_valid(info->name, UNIT_NAME_INSTANCE)) {
+
+                       if (!unit_name_is_valid(bn, UNIT_NAME_INSTANCE|UNIT_NAME_TEMPLATE))
+                               return
 -EINVAL;
+
+               } else if (unit_name_is_valid(info->name, UNIT_NAME_TEMPLATE)) {
+
+                       if (!unit_name_is_valid(bn, UNIT_NAME_TEMPLATE))
+                               return -EINVAL;
+               } else
+                       return -EINVAL;
+
+               /* Enforce that the symlink destination does not
+                * change the unit file type. */
+
+               a = unit_name_to_type(info->name);
+               b = unit_name_to_type(bn);
+               if (a < 0 || b < 0 || a != b)
+                       return -EINVAL;
+
+               info->type = UNIT_FILE_TYPE_SYMLINK;
+               info->symlink_target = np;
+               np = NULL;
+       }
+
+       return 0;
+}
+
static int unit_file_search(
                InstallContext *c,
                InstallInfo *info,
                const LookupPaths *paths,
                const char *root_dir,
-               bool allow_symlink,
-               bool load,
-
```

```
            bool *also) {
+             SearchFlags flags) {

      char **p;
      int r;
@@ -1097,8 +1099,12 @@ static int unit_file_search(
      assert(info);
      assert(paths);

+       /* Was this unit already loaded? */
+       if (info->type != _UNIT_FILE_TYPE_INVALID)
+             return 0;
+
      if (info->path)
-             return unit_file_load(c, info, info->path, root_dir, allow_symlink, load, also);
+             return unit_file_load_or_readlink(c, info, info->path, root_dir, flags);

      assert(info->name);

@@ -1109,14 +1115,15 @@ static int unit_file_search(
            if (!path)
                  return -ENOMEM;

-             r = unit_file_load(c, info, path, root_dir, allow_symlink, load, also);
-             if (r >= 0) {
+             r = unit_file_load_or_readlink(c, info, path, root_dir, flags);
+             if (r < 0) {
+                   if (r != -ENOENT)
+
            return r;
+             } else {
                  info->path = path;
                  path = NULL;
                  return r;
            }
-             if (r != -ENOENT && r != -ELOOP)
-                   return r;
      }

      if (unit_name_is_instance(info->name)) {
@@ -1138,92 +1145,149 @@ static int unit_file_search(
                  if (!path)
                        return -ENOMEM;

-                   r = unit_file_load(c, info, path, root_dir, allow_symlink, load, also);
-                   if (r >= 0) {
+                   r = unit_file_load_or_readlink(c, info, path, root_dir, flags);
+                   if (r < 0) {
```

```
+                        if (r != -ENOENT)
+                                return r;
+                } else {
                        info->path = path;
                        path = NULL;

        return r;
                }
-               if (r != -ENOENT && r != -ELOOP)
-                       return r;
        }
    }

    return -ENOENT;
}

-static int unit_file_can_install(
-           const LookupPaths *paths,
+static int install_info_follow(
+           InstallContext *c,
+           InstallInfo *i,
            const char *root_dir,
-           const char *name,
-           bool allow_symlink,
-           bool *also) {
+           SearchFlags flags) {
+
+    assert(c);
+    assert(i);
+
+    if (i->type != UNIT_FILE_TYPE_SYMLINK)
+            return -EINVAL;
+    if (!i->symlink_target)
+            return -EINVAL;
+
+    /* If the basename doesn't match, the caller should add a
+     * complete new entry for this. */
+
+    if (!streq(basename(i->symlink_target), i->name))
+            return -EXDEV;
+
+    free(i->path);
+    i->path
 = i->symlink_target;
+    i->symlink_target = NULL;
+    i->type = _UNIT_FILE_TYPE_INVALID;
+
+    return unit_file_load_or_readlink(c, i, i->path, root_dir, flags);
```

```
+}
+
+static int install_info_traverse(
+                UnitFileScope scope,
+                InstallContext *c,
+                const char *root_dir,
+                const LookupPaths *paths,
+                InstallInfo *start,
+                SearchFlags flags,
+                InstallInfo **ret) {

-       _cleanup_(install_context_done) InstallContext c = {};
        InstallInfo *i;
+       unsigned k = 0;
        int r;

        assert(paths);
-       assert(name);
+       assert(start);
+       assert(c);

-       r = install_info_add_auto(&c, name);
+       r = unit_file_search(c, start, paths, root_dir, flags);
        if (r < 0)
                return r;

-       assert_se(i = ordered_hashmap_first(c.will_install));
+       i = start;
+       while (i->type == UNIT_FILE_TYPE_SYMLINK)
 {
+               /* Follow the symlink */

-       r = unit_file_search(&c, i, paths, root_dir, allow_symlink, true, also);
+               if (++k > UNIT_FILE_FOLLOW_SYMLINK_MAX)
+                       return -ELOOP;

-       if (r >= 0)
-               r =
-                       (int) strv_length(i->aliases) +
-                       (int) strv_length(i->wanted_by) +
-                       (int) strv_length(i->required_by);
+               if (!(flags & SEARCH_FOLLOW_CONFIG_SYMLINKS) && is_config_path(scope, i->path))
+                       return -ELOOP;

-       return r;
-}
+               r = install_info_follow(c, i, root_dir, flags);
+               if (r < 0) {
```

```
+                 _cleanup_free_ char *buffer = NULL;
+                 const char *bn;

-static int create_symlink(
-         const char *old_path,
-         const char *new_path,
-         bool force,
-         UnitFileChange **changes,
-
       unsigned *n_changes) {
+                 if (r != -EXDEV)
+                         return r;

-     _cleanup_free_ char *dest = NULL;
-     int r;
+                 /* Target has a different name, create a new
+                  * install info object for that, and continue
+                  * with that. */

-     assert(old_path);
-     assert(new_path);
+                 bn = basename(i->symlink_target);

-     mkdir_parents_label(new_path, 0755);
+                 if (unit_name_is_valid(i->name, UNIT_NAME_INSTANCE) &&
+                     unit_name_is_valid(bn, UNIT_NAME_TEMPLATE)) {

-     if (symlink(old_path, new_path) >= 0) {
-         unit_file_changes_add(changes, n_changes, UNIT_FILE_SYMLINK, new_path, old_path);
-         return 0;
+                         _cleanup_free_ char *instance = NULL;
+
+                         r = unit_name_to_instance(i->name, &instance);
+
                        if (r < 0)
+                                 return r;
+
+                         buffer = unit_name_replace_instance(bn, instance);
+                         if (!buffer)
+                                 return -ENOMEM;
+
+                         bn = buffer;
+                 }
+
+                 r = install_info_add(c, bn, NULL, &i);
+                 if (r < 0)
+                         return r;
+
```

```
+                       r = unit_file_search(c, i, paths, root_dir, flags);
+                       if (r < 0)
+                               return r;
+               }
+
+               /* Try again, with the new target we found. */
        }

-       if (errno != EEXIST)
-               return -errno;
+       if (ret)
+               *ret = i;

-       r = readlink_and_make_absolute(new_path, &dest);
-       if (r < 0)
-               return r;
+       return
 0;
+}
+
+static int install_info_discover(
+               UnitFileScope scope,
+               InstallContext *c,
+               const char *root_dir,
+               const LookupPaths *paths,
+               const char *name,
+               SearchFlags flags,
+               InstallInfo **ret) {

-       if (path_equal(dest, old_path))
-               return 0;
+       InstallInfo *i;
+       int r;

-       if (!force)
-               return -EEXIST;
+       assert(c);
+       assert(paths);
+       assert(name);

-       r = symlink_atomic(old_path, new_path);
+       r = install_info_add_auto(c, name, &i);
        if (r < 0)
                return r;

-       unit_file_changes_add(changes, n_changes, UNIT_FILE_UNLINK, new_path, NULL);
-       unit_file_changes_add(changes, n_changes, UNIT_FILE_SYMLINK, new_path, old_path);
-
```

```
-       return 0;
+       return install_info_traverse(scope, c, root_dir, paths, i, flags, ret);
}

static int install_info_symlink_alias(
@@
 -1298,7 +1362,7 @@ static int install_info_symlink_wants(
                if (q < 0)
                        return q;

-               if (!unit_name_is_valid(dst, TEMPLATE_VALID)) {
+               if (!unit_name_is_valid(dst, UNIT_NAME_ANY)) {
                        r = -EINVAL;
                        continue;
                }
@@ -1358,6 +1422,9 @@ static int install_info_apply(
        assert(paths);
        assert(config_path);

+       if (i->type != UNIT_FILE_TYPE_REGULAR)
+               return 0;
+
        r = install_info_symlink_alias(i, config_path, force, changes, n_changes);

        q = install_info_symlink_wants(i, config_path, i->wanted_by, ".wants/", force, changes, n_changes);
@@ -1376,53 +1443,59 @@ static int install_info_apply(
}

static int install_context_apply(
+               UnitFileScope scope,
                InstallContext *c,
                const LookupPaths *paths,
                const char *config_path,

                const char *root_dir,
                bool force,
+               SearchFlags flags,
                UnitFileChange **changes,
                unsigned *n_changes) {

        InstallInfo *i;
-       int r, q;
+       int r;

        assert(c);
        assert(paths);
        assert(config_path);
```

```
-       if (!ordered_hashmap_isempty(c->will_install)) {
-               r = ordered_hashmap_ensure_allocated(&c->have_installed, &string_hash_ops);
-               if (r < 0)
-                       return r;
+       if (ordered_hashmap_isempty(c->will_process))
+               return 0;

-               r = ordered_hashmap_reserve(c->have_installed, ordered_hashmap_size(c->will_install));
-               if (r < 0)
-                       return r;
-       }
+       r = ordered_hashmap_ensure_allocated(&c->have_processed, &string_hash_ops);
+       if (r < 0)
+               return r;

        r = 0;
-       while ((i = ordered_hashmap_first(c->will_install)))
 {
-               assert_se(ordered_hashmap_move_one(c->have_installed, c->will_install, i->name) == 0);
+       while ((i = ordered_hashmap_first(c->will_process))) {
+               int q;

-               q = unit_file_search(c, i, paths, root_dir, false, true, NULL);
-               if (q < 0) {
-                       if (r >= 0)
-                               r = q;
+               q = ordered_hashmap_move_one(c->have_processed, c->will_process, i->name);
+               if (q < 0)
+                       return q;

+               r = install_info_traverse(scope, c, root_dir, paths, i, flags, NULL);
+               if (r < 0)
                        return r;
-               } else if (r >= 0)
-                       r += q;
+
+               if (i->type != UNIT_FILE_TYPE_REGULAR)
+                       continue;

                q = install_info_apply(i, paths, config_path, root_dir, force, changes, n_changes);
-               if (r >= 0 &&
 q < 0)
-                       r = q;
+               if (r >= 0) {
+                       if (q < 0)
+                               r = q;
+                       else
+                               r+= q;
```

```
+               }
        }

        return r;
}

static int install_context_mark_for_removal(
+                UnitFileScope scope,
                InstallContext *c,
                const LookupPaths *paths,
                Set **remove_symlinks_to,
@@ -1430,96 +1503,109 @@ static int install_context_mark_for_removal(
                const char *root_dir) {

        InstallInfo *i;
-       int r, q;
+       int r;

        assert(c);
        assert(paths);
        assert(config_path);

        /* Marks all items for removal */
-
-       if (!ordered_hashmap_isempty(c->will_install)) {
-               r = ordered_hashmap_ensure_allocated(&c->have_installed, &string_hash_ops);
+       if (!ordered_hashmap_isempty(c->will_process)) {
+
 r = ordered_hashmap_ensure_allocated(&c->have_processed, &string_hash_ops);
                if (r < 0)
                        return r;

-               r = ordered_hashmap_reserve(c->have_installed, ordered_hashmap_size(c->will_install));
+               r = ordered_hashmap_reserve(c->have_processed, ordered_hashmap_size(c->will_process));
                if (r < 0)
                        return r;
        }

        r = 0;
-       while ((i = ordered_hashmap_first(c->will_install))) {
-               assert_se(ordered_hashmap_move_one(c->have_installed, c->will_install, i->name) == 0);
-
-               q = unit_file_search(c, i, paths, root_dir, false, true, NULL);
-               if (q == -ENOENT) {
-                       /* do nothing */
-               } else if (q < 0) {
-                       if (r >= 0)
-                               r = q;
```

```
+       while ((i = ordered_hashmap_first(c->will_process))) {
+
+               r = ordered_hashmap_move_one(c->have_processed,
 c->will_process, i->name);
+               if (r < 0)
+                       return r;

+               r = install_info_traverse(scope, c, root_dir, paths, i,
SEARCH_LOAD|SEARCH_FOLLOW_CONFIG_SYMLINKS, NULL);
+               if (r < 0)
                        return r;
-               } else if (r >= 0)
-                       r += q;
-
-               if (unit_name_is_instance(i->name)) {
-                       char *unit_file;
-
-                       if (i->path) {
-                               unit_file = basename(i->path);
-
-                               if (unit_name_is_instance(unit_file))
-                                       /* unit file named as instance exists, thus all symlinks
-                                        * pointing to it will be removed */
-                                       q = mark_symlink_for_removal(remove_symlinks_to, i->name);
-                               else
-                                       /* does
 not exist, thus we will mark for removal symlinks
-                                        * to template unit file */
-                                       q = mark_symlink_for_removal(remove_symlinks_to, unit_file);
-                       } else {
-                               /* If i->path is not set, it means that we didn't actually find
-                                * the unit file. But we can still remove symlinks to the
-                                * nonexistent template. */
-                               unit_file = unit_name_template(i->name);
-                               if (!unit_file)
-                                       return log_oom();
-
-                               q = mark_symlink_for_removal(remove_symlinks_to, unit_file);
-                               free(unit_file);
-                       }
-               } else
-                       q = mark_symlink_for_removal(remove_symlinks_to, i->name);

-               if (r >= 0
 && q < 0)
+               if (i->type != UNIT_FILE_TYPE_REGULAR)
+                       continue;
+
```

```
+                r = mark_symlink_for_removal(remove_symlinks_to, i->name);
+                if (r < 0)
+                        return r;
+        }
+
+        return 0;
+}
+
+int unit_file_mask(
+                UnitFileScope scope,
+                bool runtime,
+                const char *root_dir,
+                char **files,
+                bool force,
+                UnitFileChange **changes,
+                unsigned *n_changes) {
+
+        _cleanup_free_ char *prefix = NULL;
+        char **i;
+        int r;
+
+        assert(scope >= 0);
+        assert(scope < _UNIT_FILE_SCOPE_MAX);
+
+        r = verify_root_dir(scope, &root_dir);
+        if (r < 0)
+                return r;
+
+        r = get_config_path(scope, runtime, root_dir, &prefix);
+        if (r < 0)
+                return r;
+
+        STRV_FOREACH(i, files) {
+                _cleanup_free_ char *path
 = NULL;
+                int q;
+                if (!unit_name_is_valid(*i, UNIT_NAME_ANY)) {
+                        if (r == 0)
+                                r = -EINVAL;
+                        continue;
+                }
+
+                path = path_make_absolute(*i, prefix);
+                if (!path)
+                        return -ENOMEM;
+
+                q = create_symlink("/dev/null", path, force, changes, n_changes);
+                if (q < 0 && r >= 0)
```

```
                r = q;
        }

        return r;
}

-int unit_file_add_dependency(
+int unit_file_unmask(
                UnitFileScope scope,
                bool runtime,
                const char *root_dir,
                char **files,
-               char *target,
-               UnitDependency dep,
-               bool force,
                UnitFileChange **changes,
                unsigned *n_changes) {

-       _cleanup_lookup_paths_free_ LookupPaths paths = {};
-       _cleanup_(install_context_done)
 InstallContext c = {};
+       _cleanup_set_free_free_ Set *remove_symlinks_to = NULL;
        _cleanup_free_ char *config_path = NULL;
+       _cleanup_free_ char **todo = NULL;
+       size_t n_todo = 0, n_allocated = 0;
        char **i;
-       int r;
-       InstallInfo *info;
+       int r, q;

        assert(scope >= 0);
        assert(scope < _UNIT_FILE_SCOPE_MAX);

-       r = lookup_paths_init_from_scope(&paths, scope, root_dir);
+       r = verify_root_dir(scope, &root_dir);
        if (r < 0)
                return r;

@@ -1528,57 +1614,222 @@ int unit_file_add_dependency(
                return r;

        STRV_FOREACH(i, files) {
-               UnitFileState state;
+               _cleanup_free_ char *path = NULL;

-               state = unit_file_get_state(scope, root_dir, *i);
-               if (state < 0)
-                       return log_error_errno(state, "Failed to get unit file state for %s: %m", *i);
```

```
+
          if (!unit_name_is_valid(*i, UNIT_NAME_ANY))
+                 return -EINVAL;

-             if (state == UNIT_FILE_MASKED || state == UNIT_FILE_MASKED_RUNTIME) {
-                 log_error("Failed to enable unit: Unit %s is masked", *i);
-                 return -ENOTSUP;
-             }
+             path = path_make_absolute(*i, config_path);
+             if (!path)
+                 return -ENOMEM;

-             r = install_info_add_auto(&c, *i);
+             r = null_or_empty_path(path);
+             if (r == -ENOENT)
+                 continue;
             if (r < 0)
                 return r;
+             if (r == 0)
+                 continue;
+
+             if (!GREEDY_REALLOC0(todo, n_allocated, n_todo + 2))
+                 return -ENOMEM;
+
+             todo[n_todo++] = *i;
      }

-      if (!ordered_hashmap_isempty(c.will_install)) {
-
 r = ordered_hashmap_ensure_allocated(&c.have_installed, &string_hash_ops);
-             if (r < 0)
-                 return r;
+      strv_uniq(todo);

-             r = ordered_hashmap_reserve(c.have_installed, ordered_hashmap_size(c.will_install));
-             if (r < 0)
-                 return r;
+      r = 0;
+      STRV_FOREACH(i, todo) {
+             _cleanup_free_ char *path = NULL;
+
+             path = path_make_absolute(*i, config_path);
+             if (!path)
+                 return -ENOMEM;
+
+             if (unlink(path) < 0) {
+                 if (errno != -ENOENT && r >= 0)
+                     r = -errno;
```

```
+                } else {
+                        q = mark_symlink_for_removal(&remove_symlinks_to, path);
+                        if (q < 0)
+                                return q;
+
+                        unit_file_changes_add(changes, n_changes, UNIT_FILE_UNLINK, path, NULL);
+
           }
        }

-       while ((info = ordered_hashmap_first(c.will_install))) {
-               assert_se(ordered_hashmap_move_one(c.have_installed, c.will_install, info->name) == 0);
+       q = remove_marked_symlinks(remove_symlinks_to, config_path, changes, n_changes);
+       if (r >= 0)
+               r = q;

-               r = unit_file_search(&c, info, &paths, root_dir, false, false, NULL);
-               if (r < 0)
-                       return r;
+       return r;
+}

-               if (dep == UNIT_WANTS)
-                       r = strv_extend(&info->wanted_by, target);
-               else if (dep == UNIT_REQUIRES)
-                       r = strv_extend(&info->required_by, target);
-               else
-                       r = -EINVAL;
+int unit_file_link(
+               UnitFileScope scope,
+               bool runtime,
+               const char *root_dir,
+               char **files,
+               bool force,
+
  UnitFileChange **changes,
+               unsigned *n_changes) {

-               if (r < 0)
-                       return r;
+       _cleanup_lookup_paths_free_ LookupPaths paths = {};
+       _cleanup_free_ char *config_path = NULL;
+       _cleanup_free_ char **todo = NULL;
+       size_t n_todo = 0, n_allocated = 0;
+       char **i;
+       int r,q;

-               r = install_info_apply(info, &paths, config_path, root_dir, force, changes, n_changes);
```

```
-               if (r < 0)
-                       return r;
+       assert(scope >= 0);
+       assert(scope < _UNIT_FILE_SCOPE_MAX);
+
+       r = verify_root_dir(scope, &root_dir);
+       if (r < 0)
+               return r;
+
+       r = lookup_paths_init_from_scope(&paths, scope, root_dir);
+       if (r < 0)
+               return r;
+
+       r = get_config_path(scope, runtime, root_dir, &config_path);
+       if (r < 0)
+               return r;
+
+       STRV_FOREACH(i, files) {
+
 _cleanup_free_ char *full = NULL;
+               struct stat st;
+               char *fn;
+
+               if (!path_is_absolute(*i))
+                       return -EINVAL;
+
+               fn = basename(*i);
+               if (!unit_name_is_valid(fn, UNIT_NAME_ANY))
+                       return -EINVAL;
+
+               full = prefix_root(root_dir, *i);
+               if (!full)
+                       return -ENOMEM;
+
+               if (lstat(full, &st) < 0)
+                       return -errno;
+               if (S_ISLNK(st.st_mode))
+                       return -ELOOP;
+               if (S_ISDIR(st.st_mode))
+                       return -EISDIR;
+               if (!S_ISREG(st.st_mode))
+                       return -ENOTTY;
+
+               q = in_search_path(*i, paths.unit_path);
+               if (q < 0)
+                       return q;
+               if (q > 0)
+                       continue;
```

```
+
+               if (!GREEDY_REALLOC0(todo,
 n_allocated, n_todo + 2))
+                       return -ENOMEM;
+
+               todo[n_todo++] = *i;
        }

-       return 0;
+       strv_uniq(todo);
+
+       r = 0;
+       STRV_FOREACH(i, todo) {
+               _cleanup_free_ char *path = NULL;
+
+               path = path_make_absolute(basename(*i), config_path);
+               if (!path)
+                       return -ENOMEM;
+
+               q = create_symlink(*i, path, force, changes, n_changes);
+               if (q < 0 && r >= 0)
+                       r = q;
+       }
+
+       return r;
+}
+
+int unit_file_add_dependency(
+               UnitFileScope scope,
+               bool runtime,
+               const char *root_dir,
+               char **files,
+               const char *target,
+               UnitDependency dep,
+               bool force,
+               UnitFileChange **changes,
+               unsigned *n_changes) {
+
+       _cleanup_lookup_paths_free_ LookupPaths
 paths = {};
+       _cleanup_(install_context_done) InstallContext c = {};
+       _cleanup_free_ char *config_path = NULL;
+       InstallInfo *i, *target_info;
+       char **f;
+       int r;
+
+       assert(scope >= 0);
+       assert(scope < _UNIT_FILE_SCOPE_MAX);
```

```
+       assert(target);
+
+       if (!IN_SET(dep, UNIT_WANTS, UNIT_REQUIRES))
+               return -EINVAL;
+
+       if (!unit_name_is_valid(target, UNIT_NAME_ANY))
+               return -EINVAL;
+
+       r = verify_root_dir(scope, &root_dir);
+       if (r < 0)
+               return r;
+
+       r = lookup_paths_init_from_scope(&paths, scope, root_dir);
+       if (r < 0)
+               return r;
+
+       r = get_config_path(scope, runtime, root_dir, &config_path);
+       if (r < 0)
+               return r;
+
+       r = install_info_discover(scope, &c, root_dir, &paths, target, SEARCH_FOLLOW_CONFIG_SYMLINKS,
&target_info);
+       if (r < 0)
+               return r;
+
  if (target_info->type == UNIT_FILE_TYPE_MASKED)
+               return -ESHUTDOWN;
+
+       assert(target_info->type == UNIT_FILE_TYPE_REGULAR);
+
+       STRV_FOREACH(f, files) {
+               char ***l;
+
+               r = install_info_discover(scope, &c, root_dir, &paths, *f, SEARCH_FOLLOW_CONFIG_SYMLINKS,
&i);
+                if (r < 0)
+                       return r;
+               if (i->type == UNIT_FILE_TYPE_MASKED)
+                       return -ESHUTDOWN;
+
+               assert(i->type == UNIT_FILE_TYPE_REGULAR);
+
+               /* We didn't actually load anything from the unit
+                * file, but instead just add in our new symlink to
+                * create. */
+
+                if (dep == UNIT_WANTS)
+                       l = &i->wanted_by;
```

```
+                else
+                        l = &i->required_by;
+
+                strv_free(*l);
+                *l = strv_new(target_info->name, NULL);
+                if (!*l)
+
                         return -ENOMEM;
+        }
+
+        return install_context_apply(scope, &c, &paths, config_path, root_dir, force,
SEARCH_FOLLOW_CONFIG_SYMLINKS, changes, n_changes);
}

+
int unit_file_enable(
                UnitFileScope scope,
                bool runtime,
@@ -1590,13 +1841,18 @@ int unit_file_enable(

        _cleanup_lookup_paths_free_ LookupPaths paths = {};
        _cleanup_(install_context_done) InstallContext c = {};
-        char **i;
        _cleanup_free_ char *config_path = NULL;
+        InstallInfo *i;
+        char **f;
        int r;

        assert(scope >= 0);
        assert(scope < _UNIT_FILE_SCOPE_MAX);

+        r = verify_root_dir(scope, &root_dir);
+        if (r < 0)
+                return r;
+
        r = lookup_paths_init_from_scope(&paths, scope, root_dir);
        if (r < 0)
                return r;
@@ -1605,21 +1861,14 @@ int unit_file_enable(
        if (r < 0)
                return r;

-        STRV_FOREACH(i,
 files) {
-                UnitFileState state;
-
-                /* We only want to know if this unit is masked, so we ignore
-                 * errors from unit_file_get_state, deferring other checks.
```

```
-                * This allows templated units to be enabled on the fly. */
-               state = unit_file_get_state(scope, root_dir, *i);
-               if (state == UNIT_FILE_MASKED || state == UNIT_FILE_MASKED_RUNTIME) {
-                       log_error("Failed to enable unit: Unit %s is masked", *i);
-                       return -ENOTSUP;
-               }
-
-               r = install_info_add_auto(&c, *i);
+       STRV_FOREACH(f, files) {
+               r = install_info_discover(scope, &c, root_dir, &paths, *f, SEARCH_LOAD, &i);
                if (r < 0)
                        return r;
+               if (i->type == UNIT_FILE_TYPE_MASKED)
+                       return -ESHUTDOWN;
+
+               assert(i->type == UNIT_FILE_TYPE_REGULAR);
        }

        /* This will return the number of symlink rules that were
@@ -1627,7 +1876,7 @@ int unit_file_enable(
        useful to determine whether the passed files had any
        installation data at all. */

-       return install_context_apply(&c, &paths, config_path, root_dir, force, changes, n_changes);
+       return install_context_apply(scope, &c, &paths, config_path, root_dir, force, SEARCH_LOAD, changes,
n_changes);
}

int unit_file_disable(
@@ -1640,14 +1889,18 @@ int unit_file_disable(

        _cleanup_lookup_paths_free_ LookupPaths paths = {};
        _cleanup_(install_context_done) InstallContext c = {};
-       char **i;
        _cleanup_free_ char *config_path = NULL;
        _cleanup_set_free_free_ Set *remove_symlinks_to = NULL;
-       int r, q;
+       char **i;
+       int r;

        assert(scope >= 0);
        assert(scope < _UNIT_FILE_SCOPE_MAX);

+       r = verify_root_dir(scope, &root_dir);
+       if (r < 0)
+               return
 r;
+
```

```
        r = lookup_paths_init_from_scope(&paths, scope, root_dir);
        if (r < 0)
                return r;
@@ -1657,18 +1910,19 @@ int unit_file_disable(
                return r;

        STRV_FOREACH(i, files) {
-                r = install_info_add_auto(&c, *i);
+                if (!unit_name_is_valid(*i, UNIT_NAME_ANY))
+                        return -EINVAL;
+
+                r = install_info_add(&c, *i, NULL, NULL);
                 if (r < 0)
                         return r;
         }

-        r = install_context_mark_for_removal(&c, &paths, &remove_symlinks_to, config_path, root_dir);
-
-        q = remove_marked_symlinks(remove_symlinks_to, config_path, changes, n_changes, files);
-        if (r >= 0)
-                r = q;
+        r = install_context_mark_for_removal(scope, &c, &paths, &remove_symlinks_to, config_path, root_dir);
+        if (r < 0)
+                return r;

-        return r;
+        return remove_marked_symlinks(remove_symlinks_to,
 config_path, changes, n_changes);
 }

 int unit_file_reenable(
@@ -1679,21 +1933,30 @@ int unit_file_reenable(
                 bool force,
                 UnitFileChange **changes,
                 unsigned *n_changes) {
+
+        char **n;
         int r;
+        size_t l, i;
+
+        /* First, we invoke the disable command with only the basename... */
+        l = strv_length(files);
+        n = newa(char*, l+1);
+        for (i = 0; i < l; i++)
+                n[i] = basename(files[i]);
+        n[i] = NULL;

-        r = unit_file_disable(scope, runtime, root_dir, files,
```

```
-                       changes, n_changes);
+       r = unit_file_disable(scope, runtime, root_dir, n, changes, n_changes);
        if (r < 0)
                return r;

-       return unit_file_enable(scope, runtime, root_dir, files, force,
-                               changes, n_changes);
+       /* But the enable command with the full name */
+       return unit_file_enable(scope,
 runtime, root_dir, files, force, changes, n_changes);
}

int unit_file_set_default(
                UnitFileScope scope,
                const char *root_dir,
-               const char *file,
+               const char *name,
                bool force,
                UnitFileChange **changes,
                unsigned *n_changes) {
@@ -1701,42 +1964,40 @@ int unit_file_set_default(
        _cleanup_lookup_paths_free_ LookupPaths paths = {};
        _cleanup_(install_context_done) InstallContext c = {};
        _cleanup_free_ char *config_path = NULL;
-       char *path;
+       InstallInfo *i;
+       const char *path;
        int r;
-       InstallInfo *i = NULL;

        assert(scope >= 0);
        assert(scope < _UNIT_FILE_SCOPE_MAX);
-       assert(file);
+       assert(name);

-       if (unit_name_to_type(file) != UNIT_TARGET)
+       if (unit_name_to_type(name) != UNIT_TARGET)
+               return -EINVAL;
+       if (streq(name, SPECIAL_DEFAULT_TARGET))
                return -EINVAL;

-       r = lookup_paths_init_from_scope(&paths, scope, root_dir);
+       r = verify_root_dir(scope, &root_dir);
        if (r < 0)
                return r;

-       r = get_config_path(scope, false, root_dir, &config_path);
+       r = lookup_paths_init_from_scope(&paths, scope, root_dir);
```

```
        if (r < 0)
                return r;

-       r = install_info_add_auto(&c, file);
+       r = get_config_path(scope, false, root_dir, &config_path);
        if (r < 0)
                return r;

-       assert_se(i = ordered_hashmap_first(c.will_install));
-
-       r = unit_file_search(&c, i, &paths, root_dir, false, true, NULL);
+       r = install_info_discover(scope, &c, root_dir, &paths, name, 0, &i);
        if (r < 0)
                return r;
+       if (i->type == UNIT_FILE_TYPE_MASKED)
+               return -ESHUTDOWN;

        path = strjoina(config_path, "/" SPECIAL_DEFAULT_TARGET);

-       r = create_symlink(i->path,
 path, force, changes, n_changes);
-       if (r < 0)
-               return r;
-
-       return 0;
+       return create_symlink(i->path, path, force, changes, n_changes);
}

int unit_file_get_default(
@@ -1745,127 +2006,100 @@ int unit_file_get_default(
                char **name) {

        _cleanup_lookup_paths_free_ LookupPaths paths = {};
-       char **p;
+       _cleanup_(install_context_done) InstallContext c = {};
+       InstallInfo *i;
+       char *n;
        int r;

        assert(scope >= 0);
        assert(scope < _UNIT_FILE_SCOPE_MAX);
        assert(name);

-       r = lookup_paths_init_from_scope(&paths, scope, root_dir);
+       r = verify_root_dir(scope, &root_dir);
        if (r < 0)
                return r;
```

```
-       STRV_FOREACH(p, paths.unit_path) {
-               _cleanup_free_ char *path = NULL, *tmp = NULL;
-               char *n;
-
-               path = path_join(root_dir, *p, SPECIAL_DEFAULT_TARGET);
-
        if (!path)
-                       return -ENOMEM;
-
-               r = readlink_malloc(path, &tmp);
-               if (r == -ENOENT)
-                       continue;
-               else if (r == -EINVAL)
-                       /* not a symlink */
-                       n = strdup(SPECIAL_DEFAULT_TARGET);
-               else if (r < 0)
-                       return r;
-               else
-                       n = strdup(basename(tmp));
+       r = lookup_paths_init_from_scope(&paths, scope, root_dir);
+       if (r < 0)
+               return r;

-               if (!n)
-                       return -ENOMEM;
+       r = install_info_discover(scope, &c, root_dir, &paths, SPECIAL_DEFAULT_TARGET,
SEARCH_FOLLOW_CONFIG_SYMLINKS, &i);
+       if (r < 0)
+               return r;
+       if (i->type == UNIT_FILE_TYPE_MASKED)
+               return -ESHUTDOWN;

-               *name = n;
-               return 0;
-       }
+       n = strdup(i->name);
+
       if (!n)
+               return -ENOMEM;

-       return -ENOENT;
+       *name = n;
+       return 0;
}

UnitFileState unit_file_lookup_state(
               UnitFileScope scope,
               const char *root_dir,
```

```
                const LookupPaths *paths,
-               const char *name) {
-
-       UnitFileState state = _UNIT_FILE_STATE_INVALID;
-       char **i;
-       _cleanup_free_ char *path = NULL;
+               const char *name,
+               UnitFileState *ret) {
+       _cleanup_(install_context_done) InstallContext c = {};
+       InstallInfo *i;
+       UnitFileState state;
        int r;

        assert(paths);
+       assert(name);

-       if (!unit_name_is_valid(name, TEMPLATE_VALID))
+       if (!unit_name_is_valid(name, UNIT_NAME_ANY))
                return -EINVAL;

-       STRV_FOREACH(i, paths->unit_path) {
-               struct stat st;
-               char *partial;
-               bool also = false;
-
-
               free(path);
-               path = path_join(root_dir, *i, name);
-               if (!path)
-                       return -ENOMEM;
+       r = verify_root_dir(scope, &root_dir);
+       if (r < 0)
+               return r;

-               if (root_dir)
-                       partial = path + strlen(root_dir);
-               else
-                       partial = path;
+       r = install_info_discover(scope, &c, root_dir, paths, name,
SEARCH_LOAD|SEARCH_FOLLOW_CONFIG_SYMLINKS, &i);
+       if (r < 0)
+               return r;

-               /*
-                * Search for a unit file in our default paths, to
-                * be sure, that there are no broken symlinks.
-                */
-               if (lstat(path, &st) < 0) {
```

```
-                   r = -errno;
-                   if (errno != ENOENT)
-                           return r;
+       /* Shortcut things, if the caller just wants to know if this unit exists. */
+
        if (!ret)
+               return 0;

-                   if (!unit_name_is_instance(name))
-                           continue;
-           } else {
-                   if (!S_ISREG(st.st_mode) && !S_ISLNK(st.st_mode))
-                           return -ENOENT;
+       switch (i->type) {

-                   r = null_or_empty_path(path);
-                   if (r < 0 && r != -ENOENT)
-                           return r;
-                   else if (r > 0) {
-                           state = path_startswith(*i, "/run") ?
-                                   UNIT_FILE_MASKED_RUNTIME : UNIT_FILE_MASKED;
-                           return state;
-                   }
-           }
+       case UNIT_FILE_TYPE_MASKED:
+               state = path_startswith(i->path, "/run") ? UNIT_FILE_MASKED_RUNTIME : UNIT_FILE_MASKED;
+               break;

-           r = find_symlinks_in_scope(scope, root_dir, name,
 &state);
+       case UNIT_FILE_TYPE_REGULAR:
+               r = find_symlinks_in_scope(scope, root_dir, i->name, &state);
                if (r < 0)
                        return r;
-           else if (r > 0)
-                   return state;
-
-           r = unit_file_can_install(paths, root_dir, partial, true, &also);
-           if (r < 0 && errno != ENOENT)
-                   return r;
-           else if (r > 0)
-                   return UNIT_FILE_DISABLED;
-           else if (r == 0) {
-                   if (also)
-                           return UNIT_FILE_INDIRECT;
-                   return UNIT_FILE_STATIC;
+               if (r == 0) {
+                       if (UNIT_FILE_INSTALL_INFO_HAS_RULES(i))
```

```
+                       state = UNIT_FILE_DISABLED;
+                   else if (UNIT_FILE_INSTALL_INFO_HAS_ALSO(i))
+                       state = UNIT_FILE_INDIRECT;
+
           else
+                       state = UNIT_FILE_STATIC;
             }
+
+              break;
+
+       default:
+               assert_not_reached("Unexpect unit file type.");
       }

-       return r < 0 ? r : state;
+       *ret = state;
+       return 0;
}

-UnitFileState unit_file_get_state(
+int unit_file_get_state(
              UnitFileScope scope,
              const char *root_dir,
-              const char *name) {
+              const char *name,
+              UnitFileState *ret) {

       _cleanup_lookup_paths_free_ LookupPaths paths = {};
       int r;
@@ -1874,14 +2108,15 @@ UnitFileState unit_file_get_state(
       assert(scope < _UNIT_FILE_SCOPE_MAX);
       assert(name);

-       if (root_dir && scope != UNIT_FILE_SYSTEM)
-               return -EINVAL;
+       r = verify_root_dir(scope, &root_dir);
+       if (r < 0)
+               return r;

       r = lookup_paths_init_from_scope(&paths, scope,
 root_dir);
       if (r < 0)
             return r;

-       return unit_file_lookup_state(scope, root_dir, &paths, name);
+       return unit_file_lookup_state(scope, root_dir, &paths, name, ret);
}
```

```
int unit_file_query_preset(UnitFileScope scope, const char *root_dir, const char *name) {
@@ -1893,6 +2128,13 @@ int unit_file_query_preset(UnitFileScope scope, const char *root_dir, const char
        assert(scope < _UNIT_FILE_SCOPE_MAX);
        assert(name);

+       r = verify_root_dir(scope, &root_dir);
+       if (r < 0)
+               return r;
+
+       if (!unit_name_is_valid(name, UNIT_NAME_ANY))
+               return -EINVAL;
+
        if (scope == UNIT_FILE_SYSTEM)
                r = conf_files_list(&files, ".preset", root_dir,
                                    "/etc/systemd/system-preset",
@@ -1909,13 +2151,14 @@ int unit_file_query_preset(UnitFileScope scope, const char *root_dir, const char
                                    "/usr/lib/systemd/user-preset",
                                    NULL);
        else
-               return 1;
+               return 1; /* Default is "enable" */

        if (r < 0)
                return r;

        STRV_FOREACH(p, files) {
                _cleanup_fclose_ FILE *f;
+               char line[LINE_MAX];

                f = fopen(*p, "re");
                if (!f) {
@@ -1925,39 +2168,38 @@ int unit_file_query_preset(UnitFileScope scope, const char *root_dir, const char
                                return -errno;
                        }

-                       for (;;) {
-                               char line[LINE_MAX], *l;
-
-                               if (!fgets(line, sizeof(line), f))
-                                       break;
+                       FOREACH_LINE(line, f, return -errno) {
+                               const char *parameter;
+                               char *l;

                                l = strstrip(line);
-                               if (!*l)
-                                       continue;
```

```
-
                if (strchr(COMMENTS "\n", *l))
+                       if (isempty(l))
+                               continue;
+                       if (strchr(COMMENTS, *l))
                                continue;

-                       if (first_word(l, "enable")) {
-                               l += 6;
-                               l += strspn(l, WHITESPACE);
-
-                               if (fnmatch(l, name, FNM_NOESCAPE) == 0) {
+                       parameter = first_word(l, "enable");
+                       if (parameter) {
+                               if (fnmatch(parameter, name, FNM_NOESCAPE) == 0) {
                                        log_debug("Preset file says enable %s.", name);
                                        return 1;
                                }

-                       } else if (first_word(l, "disable")) {
-                               l += 7;
-                               l += strspn(l, WHITESPACE);
+
                                continue;
+                       }

-                               if (fnmatch(l, name, FNM_NOESCAPE) == 0) {
+                       parameter = first_word(l, "disable");
+                       if (parameter) {
+                               if (fnmatch(parameter, name, FNM_NOESCAPE) == 0) {
                                        log_debug("Preset file says disable %s.", name);
                                        return 0;
                                }

-                       } else
-                               log_debug("Couldn't parse line '%s'", l);
+                               continue;
+                       }
+
+                       log_debug("Couldn't parse line '%s'", l);
                }
        }

@@ -1966,6 +2208,86 @@ int unit_file_query_preset(UnitFileScope scope, const char *root_dir, const char
        return 1;
}

+static int execute_preset(
```

```
+               UnitFileScope scope,
+
  InstallContext *plus,
+               InstallContext *minus,
+               const LookupPaths *paths,
+               const char *config_path,
+               const char *root_dir,
+               char **files,
+               UnitFilePresetMode mode,
+               bool force,
+               UnitFileChange **changes,
+               unsigned *n_changes) {
+
+       int r;
+
+       assert(plus);
+       assert(minus);
+       assert(paths);
+       assert(config_path);
+
+       if (mode != UNIT_FILE_PRESET_ENABLE_ONLY) {
+               _cleanup_set_free_free_ Set *remove_symlinks_to = NULL;
+
+               r = install_context_mark_for_removal(scope, minus, paths, &remove_symlinks_to, config_path,
root_dir);
+               if (r < 0)
+                       return r;
+
+               r = remove_marked_symlinks(remove_symlinks_to, config_path, changes, n_changes);
+       } else
+               r = 0;
+
+       if (mode != UNIT_FILE_PRESET_DISABLE_ONLY)
 {
+               int q;
+
+               /* Returns number of symlinks that where supposed to be installed. */
+               q = install_context_apply(scope, plus, paths, config_path, root_dir, force, SEARCH_LOAD, changes,
n_changes);
+               if (r >= 0) {
+                       if (q < 0)
+                               r = q;
+                       else
+                               r+= q;
+               }
+       }
+
+       return r;
```

```
+}
+
+static int preset_prepare_one(
+                UnitFileScope scope,
+                InstallContext *plus,
+                InstallContext *minus,
+                LookupPaths *paths,
+                const char *root_dir,
+                UnitFilePresetMode mode,
+                const char *name) {
+
+        InstallInfo *i;
+        int r;
+
+        if (install_info_find(plus, name) ||
+            install_info_find(minus, name))
+                return 0;
+
+        r = unit_file_query_preset(scope, root_dir, name);
+
        if (r < 0)
+                return r;
+
+        if (r > 0) {
+                r = install_info_discover(scope, plus, root_dir, paths, name,
SEARCH_LOAD|SEARCH_FOLLOW_CONFIG_SYMLINKS, &i);
+                if (r < 0)
+                        return r;
+
+                if (i->type == UNIT_FILE_TYPE_MASKED)
+                        return -ESHUTDOWN;
+        } else
+                r = install_info_discover(scope, minus, root_dir, paths, name,
SEARCH_FOLLOW_CONFIG_SYMLINKS, &i);
+
+        return r;
+}
+
int unit_file_preset(
                UnitFileScope scope,
                bool runtime,
@@ -1980,12 +2302,16 @@ int unit_file_preset(
        _cleanup_lookup_paths_free_ LookupPaths paths = {};
        _cleanup_free_ char *config_path = NULL;
        char **i;
-       int r, q;
+       int r;
```

```
        assert(scope >= 0);
        assert(scope < _UNIT_FILE_SCOPE_MAX);
        assert(mode < _UNIT_FILE_PRESET_MAX);

+       r = verify_root_dir(scope, &root_dir);
+
        if (r < 0)
+               return r;
+
        r = lookup_paths_init_from_scope(&paths, scope, root_dir);
        if (r < 0)
                return r;
@@ -1995,44 +2321,15 @@ int unit_file_preset(
                return r;

        STRV_FOREACH(i, files) {
-
-               if (!unit_name_is_valid(*i, TEMPLATE_VALID))
+               if (!unit_name_is_valid(*i, UNIT_NAME_ANY))
                        return -EINVAL;

-               r = unit_file_query_preset(scope, root_dir, *i);
-               if (r < 0)
-                       return r;
-
-               if (r && mode != UNIT_FILE_PRESET_DISABLE_ONLY)
-                       r = install_info_add_auto(&plus, *i);
-               else if (!r && mode != UNIT_FILE_PRESET_ENABLE_ONLY)
-                       r = install_info_add_auto(&minus, *i);
-               else
-                       r = 0;
+               r = preset_prepare_one(scope, &plus, &minus, &paths, root_dir, mode, *i);
                if
 (r < 0)
                        return r;
        }

-       r = 0;
-
-       if (mode != UNIT_FILE_PRESET_ENABLE_ONLY) {
-               _cleanup_set_free_free_ Set *remove_symlinks_to = NULL;
-
-               r = install_context_mark_for_removal(&minus, &paths, &remove_symlinks_to, config_path, root_dir);
-
-               q = remove_marked_symlinks(remove_symlinks_to, config_path, changes, n_changes, files);
-               if (r == 0)
-                       r = q;
-       }
```

```
-
-       if (mode != UNIT_FILE_PRESET_DISABLE_ONLY) {
-               /* Returns number of symlinks that where supposed to be installed. */
-               q = install_context_apply(&plus, &paths, config_path, root_dir, force, changes, n_changes);
-               if (r == 0)
-                       r = q;
-       }
-
-       return r;
+       return execute_preset(scope, &plus, &minus, &paths, config_path, root_dir, files, mode, force, changes,
n_changes);
}

int unit_file_preset_all(
@@
 -2048,12 +2345,16 @@ int unit_file_preset_all(
        _cleanup_lookup_paths_free_ LookupPaths paths = {};
        _cleanup_free_ char *config_path = NULL;
        char **i;
-       int r, q;
+       int r;

        assert(scope >= 0);
        assert(scope < _UNIT_FILE_SCOPE_MAX);
        assert(mode < _UNIT_FILE_PRESET_MAX);

+       r = verify_root_dir(scope, &root_dir);
+       if (r < 0)
+               return r;
+
        r = lookup_paths_init_from_scope(&paths, scope, root_dir);
        if (r < 0)
                return r;
@@ -2092,48 +2393,21 @@ int unit_file_preset_all(
                        if (hidden_file(de->d_name))
                                continue;

-                       if (!unit_name_is_valid(de->d_name, TEMPLATE_VALID))
+                       if (!unit_name_is_valid(de->d_name, UNIT_NAME_ANY))
                                continue;

                        dirent_ensure_type(d, de);

-                       if (de->d_type !=
 DT_REG)
+                       if (!IN_SET(de->d_type, DT_LNK, DT_REG))
                                continue;
```

```
-                       r = unit_file_query_preset(scope, root_dir, de->d_name);
-                       if (r < 0)
-                               return r;
-
-                       if (r && mode != UNIT_FILE_PRESET_DISABLE_ONLY)
-                               r = install_info_add_auto(&plus, de->d_name);
-                       else if (!r && mode != UNIT_FILE_PRESET_ENABLE_ONLY)
-                               r = install_info_add_auto(&minus, de->d_name);
-                       else
-                               r = 0;
+                       r = preset_prepare_one(scope, &plus, &minus, &paths, root_dir, mode, de->d_name);
                        if (r < 0)
                                return r;
                }
        }

-       r = 0;
-
-       if (mode != UNIT_FILE_PRESET_ENABLE_ONLY) {
-               _cleanup_set_free_free_ Set *remove_symlinks_to
 = NULL;
-
-               r = install_context_mark_for_removal(&minus, &paths, &remove_symlinks_to, config_path, root_dir);
-
-               q = remove_marked_symlinks(remove_symlinks_to, config_path, changes, n_changes, NULL);
-               if (r == 0)
-                       r = q;
-       }
-
-       if (mode != UNIT_FILE_PRESET_DISABLE_ONLY) {
-               q = install_context_apply(&plus, &paths, config_path, root_dir, force, changes, n_changes);
-               if (r == 0)
-                       r = q;
-       }
-
-       return r;
+       return execute_preset(scope, &plus, &minus, &paths, config_path, root_dir, NULL, mode, force, changes,
n_changes);
}

static void unit_file_list_free_one(UnitFileList *f) {
@@ -2144,6 +2418,17 @@ static void unit_file_list_free_one(UnitFileList *f) {
        free(f);
}

+Hashmap* unit_file_list_free(Hashmap *h) {
+       UnitFileList *i;
+
```

```
+       while ((i = hashmap_steal_first(h)))
+               unit_file_list_free_one(i);
+
+
        hashmap_free(h);
+
+       return NULL;
+}
+
DEFINE_TRIVIAL_CLEANUP_FUNC(UnitFileList*, unit_file_list_free_one);

int unit_file_get_list(
@@ -2159,14 +2444,9 @@ int unit_file_get_list(
        assert(scope < _UNIT_FILE_SCOPE_MAX);
        assert(h);

-       if (root_dir && scope != UNIT_FILE_SYSTEM)
-               return -EINVAL;
-
-       if (root_dir) {
-               r = access(root_dir, F_OK);
-               if (r < 0)
-                       return -errno;
-       }
+       r = verify_root_dir(scope, &root_dir);
+       if (r < 0)
+               return r;

        r = lookup_paths_init_from_scope(&paths, scope, root_dir);
        if (r < 0)
@@ -2191,7 +2471,6 @@ int unit_file_get_list(
                for (;;) {
                        _cleanup_(unit_file_list_free_onep) UnitFileList *f = NULL;
                        struct dirent *de;
-                       _cleanup_free_ char *path = NULL;


        errno = 0;
                        de = readdir(d);
@@ -2204,7 +2483,7 @@ int unit_file_get_list(
                        if (hidden_file(de->d_name))
                                continue;

-                       if (!unit_name_is_valid(de->d_name, TEMPLATE_VALID))
+                       if (!unit_name_is_valid(de->d_name, UNIT_NAME_ANY))
                                continue;

                        if (hashmap_get(h, de->d_name))
```

```
@@ -2223,44 +2502,14 @@ int unit_file_get_list(
                 if (!f->path)
                         return -ENOMEM;

-                r = null_or_empty_path(f->path);
-                if (r < 0 && r != -ENOENT)
-                        return r;
-                else if (r > 0) {
-                        f->state =
-                                path_startswith(*i, "/run") ?
-                                UNIT_FILE_MASKED_RUNTIME : UNIT_FILE_MASKED;
-
                     goto found;
-                }
-
-                r = find_symlinks_in_scope(scope, root_dir, de->d_name, &f->state);
+                 r = unit_file_lookup_state(scope, root_dir, &paths, basename(f->path), &f->state);
                 if (r < 0)
-                        return r;
-                else if (r > 0) {
-                        f->state = UNIT_FILE_ENABLED;
-                        goto found;
-                }
-
-                path = path_make_absolute(de->d_name, *i);
-                if (!path)
-                        return -ENOMEM;
+                         f->state = UNIT_FILE_BAD;

-                r = unit_file_can_install(&paths, root_dir, path, true, NULL);
-                if (r == -EINVAL ||  /* Invalid setting? */
-                    r == -EBADMSG || /* Invalid format? */
-                    r
- == -ENOENT     /* Included file not found? */)
-                        f->state = UNIT_FILE_INVALID;
-                else if (r < 0)
-                        return r;
-                else if (r > 0)
-                        f->state = UNIT_FILE_DISABLED;
-                else
-                        f->state = UNIT_FILE_STATIC;
-
-        found:
                 r = hashmap_put(h, basename(f->path), f);
                 if (r < 0)
                         return r;
+
                 f = NULL; /* prevent cleanup */
```

```
                }
        }
@@ -2278,7 +2527,7 @@ static const char* const unit_file_state_table[_UNIT_FILE_STATE_MAX] = {
        [UNIT_FILE_STATIC] = "static",
        [UNIT_FILE_DISABLED] = "disabled",
        [UNIT_FILE_INDIRECT] = "indirect",
-       [UNIT_FILE_INVALID] = "invalid",
+       [UNIT_FILE_BAD] = "bad",
 };

 DEFINE_STRING_TABLE_LOOKUP(unit_file_state,
 UnitFileState);
diff --git a/src/shared/install.h b/src/shared/install.h
index d729e6ed15..87a40b67c1 100644
--- a/src/shared/install.h
+++ b/src/shared/install.h
@@ -24,6 +24,7 @@
 #include "hashmap.h"
 #include "unit-name.h"
 #include "path-lookup.h"
+#include "strv.h"

 typedef enum UnitFileScope {
        UNIT_FILE_SYSTEM,
@@ -43,7 +44,7 @@ typedef enum UnitFileState {
        UNIT_FILE_STATIC,
        UNIT_FILE_DISABLED,
        UNIT_FILE_INDIRECT,
-       UNIT_FILE_INVALID,
+       UNIT_FILE_BAD,
        _UNIT_FILE_STATE_MAX,
        _UNIT_FILE_STATE_INVALID = -1
 } UnitFileState;
@@ -74,6 +75,14 @@ typedef struct UnitFileList {
        UnitFileState state;
 } UnitFileList;

+typedef enum UnitFileType {
+       UNIT_FILE_TYPE_REGULAR,
+       UNIT_FILE_TYPE_SYMLINK,
+       UNIT_FILE_TYPE_MASKED,
+       _UNIT_FILE_TYPE_MAX,
+       _UNIT_FILE_TYPE_INVALID = -1,
+} UnitFileType;
+
 typedef struct {
        char *name;
        char *path;
```

```
@@ -85,8 +94,26 @@ typedef
 struct {
        char **also;

        char *default_instance;
+
+       UnitFileType type;
+
+       char *symlink_target;
} InstallInfo;

+static inline bool UNIT_FILE_INSTALL_INFO_HAS_RULES(InstallInfo *i) {
+       assert(i);
+
+       return !strv_isempty(i->aliases) ||
+              !strv_isempty(i->wanted_by) ||
+              !strv_isempty(i->required_by);
+}
+
+static inline bool UNIT_FILE_INSTALL_INFO_HAS_ALSO(InstallInfo *i) {
+       assert(i);
+
+       return !strv_isempty(i->also);
+}
+
int unit_file_enable(UnitFileScope scope, bool runtime, const char *root_dir, char **files, bool force,
UnitFileChange **changes, unsigned *n_changes);
int unit_file_disable(UnitFileScope scope, bool runtime, const char *root_dir, char **files, UnitFileChange
**changes, unsigned *n_changes);
int unit_file_reenable(UnitFileScope scope, bool runtime, const char *root_dir, char **files, bool force,
UnitFileChange **changes, unsigned *n_changes);
@@ -97,21 +124,14 @@ int
 unit_file_mask(UnitFileScope scope, bool runtime, const char *root_dir, char
int unit_file_unmask(UnitFileScope scope, bool runtime, const char *root_dir, char **files, UnitFileChange
**changes, unsigned *n_changes);
int unit_file_set_default(UnitFileScope scope, const char *root_dir, const char *file, bool force, UnitFileChange
**changes, unsigned *n_changes);
int unit_file_get_default(UnitFileScope scope, const char *root_dir, char **name);
-int unit_file_add_dependency(UnitFileScope scope, bool runtime, const char *root_dir, char **files, char *target,
UnitDependency dep, bool force, UnitFileChange **changes, unsigned *n_changes);
-
-UnitFileState unit_file_lookup_state(
-               UnitFileScope scope,
-               const char *root_dir,
-               const LookupPaths *paths,
-               const char *name);
-UnitFileState unit_file_get_state(
-               UnitFileScope scope,
```

```
-                const char *root_dir,
-                const char *filename);
+int
 unit_file_add_dependency(UnitFileScope scope, bool runtime, const char *root_dir, char **files, const char *target,
UnitDependency dep, bool force, UnitFileChange **changes, unsigned *n_changes);
+
+int unit_file_lookup_state(UnitFileScope scope, const char *root_dir,const LookupPaths *paths, const char *name,
UnitFileState *ret);
+int unit_file_get_state(UnitFileScope scope, const char *root_dir, const char *filename, UnitFileState *ret);

int unit_file_get_list(UnitFileScope scope, const char *root_dir, Hashmap *h);
+Hashmap* unit_file_list_free(Hashmap *h);

-void unit_file_list_free(Hashmap *h);
int unit_file_changes_add(UnitFileChange **changes, unsigned *n_changes, UnitFileChangeType type, const char
*path, const char *source);
void unit_file_changes_free(UnitFileChange *changes, unsigned n_changes);

diff --git a/src/shared/path-util.c b/src/shared/path-util.c
index d5510bf56f..1181ffb9d4 100644
--- a/src/shared/path-util.c
+++ b/src/shared/path-util.c
@@ -704,3 +704,37 @@
 int fsck_exists(const char *fstype) {

        return 0;
}
+
+char *prefix_root(const char *root, const char *path) {
+        char *n, *p;
+        size_t l;
+
+        /* If root is passed, prefixes path with it. Otherwise returns
+         * it as is. */
+
+        assert(path);
+
+        /* First, drop duplicate prefixing slashes from the path */
+        while (path[0] == '/' && path[1] == '/')
+                path++;
+
+        if (isempty(root) || path_equal(root, "/"))
+                return strdup(path);
+
+        l = strlen(root) + 1 + strlen(path) + 1;
+
+        n = new(char, l);
+        if (!n)
```

```
+               return NULL;
+
+       p = stpcpy(n, root);
+
+       while (p > n && p[-1] == '/')
+               p--;
+
+       if (path[0] != '/')
+               *(p++) = '/';
+
+       strcpy(p, path);
+       return n;
+}
diff --git a/src/shared/path-util.h b/src/shared/path-util.h
index ca81b49cbf..71bb740e98 100644
--- a/src/shared/path-util.h
+++ b/src/shared/path-util.h
@@
 -63,6 +63,33 @@ bool paths_check_timestamp(const char* const* paths, usec_t *paths_ts_usec, bool

int fsck_exists(const char *fstype);

+char *prefix_root(const char *root, const char *path);
+
+/* Similar to prefix_root(), but returns an alloca() buffer, or
+ * possibly a const pointer into the path parameter */
+#define prefix_roota(root, path)                                \
+       ({                                                      \
+               const char* _path = (path), *_root = (root), *_ret;     \
+               char *_p, *_n;                                  \
+               size_t _l;                                      \
+               while (_path[0] == '/' && _path[1] == '/')              \
+                       _path ++;                               \
+               if (isempty(_root) || path_equal(_root, "/"))           \
+                       _ret = _path;
        \
+               else {                                          \
+                       _l = strlen(_root) + 1 + strlen(_path) + 1;     \
+                       _n = alloca(_l);                        \
+                       _p = stpcpy(_n, _root);                 \
+                       while (_p > _n && _p[-1] == '/')                \
+                               _p--;                           \
+                       if (_path[0] != '/')                    \
+                               *(_p++) = '/';                  \
+                       strcpy(_p, _path);                      \
+                       _ret = _n;                              \
+               }                                               \
+               _ret;                                           \
```

```
+       })
+
/* Iterates through the path prefixes of the specified path, going up
 *
 the tree, to root. Also returns "" (and not "/"!) for the root
 * directory. Excludes the specified directory itself */
diff --git a/src/shared/unit-name.c b/src/shared/unit-name.c
index f728af4a81..b7827d14bb 100644
--- a/src/shared/unit-name.c
+++ b/src/shared/unit-name.c
@@ -63,16 +63,13 @@ static const char* const unit_load_state_table[_UNIT_LOAD_STATE_MAX] = {

DEFINE_STRING_TABLE_LOOKUP(unit_load_state, UnitLoadState);

-bool unit_name_is_valid(const char *n, enum template_valid template_ok) {
+bool unit_name_is_valid(const char *n, UnitNameFlags flags) {
        const char *e, *i, *at;

-       /* Valid formats:
-        *
-        *         string@instance.suffix
-        *         string.suffix
-        */
+       assert((flags & ~(UNIT_NAME_PLAIN|UNIT_NAME_INSTANCE|UNIT_NAME_TEMPLATE)) == 0);

-       assert(IN_SET(template_ok, TEMPLATE_VALID, TEMPLATE_INVALID));
+       if (_unlikely_(flags == 0))
+               return false;

        if (isempty(n))

            return false;
@@ -96,15 +93,22 @@ bool unit_name_is_valid(const char *n, enum template_valid template_ok) {
                    return false;
        }

-       if (at) {
-               if (at == n)
-                       return false;
+       if (at == n)
+               return false;

-               if (template_ok != TEMPLATE_VALID && at+1 == e)
-                       return false;
-       }
+       if (flags & UNIT_NAME_PLAIN)
+               if (!at)
+                       return true;
```

```
+
+       if (flags & UNIT_NAME_INSTANCE)
+               if (at && e > at + 1)
+                       return true;
+
+       if (flags & UNIT_NAME_TEMPLATE)
+               if (at && e == at + 1)
+                       return true;

-       return true;
+       return false;
}

bool unit_instance_is_valid(const char *i) {
diff --git a/src/shared/unit-name.h b/src/shared/unit-name.h
index 6f139cc4c4..4364860623 100644
--- a/src/shared/unit-name.h
+++
 b/src/shared/unit-name.h
@@ -107,6 +107,13 @@ enum UnitDependency {
        _UNIT_DEPENDENCY_INVALID = -1
};

+typedef enum UnitNameFlags {
+       UNIT_NAME_PLAIN = 1,      /* Allow foo.service */
+       UNIT_NAME_INSTANCE = 2,   /* Allow foo@bar.service */
+       UNIT_NAME_TEMPLATE = 4,   /* Allow foo@.service */
+       UNIT_NAME_ANY = UNIT_NAME_PLAIN|UNIT_NAME_INSTANCE|UNIT_NAME_TEMPLATE,
+} UnitNameFlags;
+
const char *unit_type_to_string(UnitType i) _const_;
UnitType unit_type_from_string(const char *s) _pure_;

@@ -117,12 +124,7 @@ int unit_name_to_instance(const char *n, char **instance);
char* unit_name_to_prefix(const char *n);
char* unit_name_to_prefix_and_instance(const char *n);

-enum template_valid {
-       TEMPLATE_INVALID,
-       TEMPLATE_VALID,
-};
-
-bool unit_name_is_valid(const char *n, enum template_valid template_ok) _pure_;
+bool unit_name_is_valid(const char *n, UnitNameFlags flags) _pure_;
bool unit_prefix_is_valid(const char *p) _pure_;
 bool unit_instance_is_valid(const char *i) _pure_;

diff --git a/src/shared/util.c b/src/shared/util.c
```

```
index a24aa7f93a..036677eb46 100644
--- a/src/shared/util.c
+++ b/src/shared/util.c
@@ -1094,6 +1094,27 @@ int readlink_and_canonicalize(const char *p, char **r) {
        return 0;
 }

+
+int readlink_and_make_absolute_root(const char *root, const char *path, char **ret) {
+       _cleanup_free_ char *target = NULL, *t = NULL;
+       const char *full;
+       int r;
+
+       full = prefix_roota(root, path);
+       r = readlink_malloc(full, &target);
+       if (r < 0)
+               return r;
+
+       t = file_in_same_dir(path, target);
+       if (!t)
+               return -ENOMEM;
+
+       *ret = t;
+       t = NULL;
+
+       return 0;
+}
+
 int reset_all_signal_handlers(void) {
        int sig, r = 0;

diff --git a/src/shared/util.h b/src/shared/util.h
index b4a4a491f9..a441e44ff9 100644
--- a/src/shared/util.h
+++ b/src/shared/util.h
@@ -281,6 +281,7 @@
 int readlink_malloc(const char *p, char **r);
 int readlink_value(const char *p, char **ret);
 int readlink_and_make_absolute(const char *p, char **r);
 int readlink_and_canonicalize(const char *p, char **r);
+int readlink_and_make_absolute_root(const char *root, const char *path, char **ret);

 int reset_all_signal_handlers(void);
 int reset_signal_mask(void);
diff --git a/src/systemctl/systemctl.c b/src/systemctl/systemctl.c
index bf5bb398b7..95ddf3be76 100644
--- a/src/systemctl/systemctl.c
+++ b/src/systemctl/systemctl.c
```

```
@@ -1304,7 +1304,7 @@ static void output_unit_file_list(const UnitFileList *units, unsigned c) {
             if (u->state == UNIT_FILE_MASKED ||
                 u->state == UNIT_FILE_MASKED_RUNTIME ||
                 u->state == UNIT_FILE_DISABLED ||
-                u->state == UNIT_FILE_INVALID) {
+                u->state == UNIT_FILE_BAD) {
                 on  = ansi_highlight_red();
                 off = ansi_highlight_off();
             } else if (u->state == UNIT_FILE_ENABLED) {
@@ -5637,8 +5637,8 @@ static int unit_is_enabled(sd_bus *bus, char **args) {
         STRV_FOREACH(name, names) {
                 UnitFileState state;

-                state = unit_file_get_state(arg_scope, arg_root, *name);
-                if (state < 0)
+                r = unit_file_get_state(arg_scope, arg_root, *name, &state);
+                if (r < 0)
                         return log_error_errno(state, "Failed to get unit file state for %s: %m", *name);

                 if (state == UNIT_FILE_ENABLED ||
diff --git a/src/sysv-generator/sysv-generator.c b/src/sysv-generator/sysv-generator.c
index d60e75a06b..7e0e7fc283 100644
--- a/src/sysv-generator/sysv-generator.c
+++ b/src/sysv-generator/sysv-generator.c
@@ -712,6 +712,7 @@ static int fix_order(SysvStub *s, Hashmap *all_services) {

static int enumerate_sysv(const LookupPaths *lp, Hashmap
 *all_services) {
        char **path;
+       int r;

        STRV_FOREACH(path, lp->sysvinit_path) {
                _cleanup_closedir_ DIR *d = NULL;
@@ -728,7 +729,6 @@ static int enumerate_sysv(const LookupPaths *lp, Hashmap *all_services) {
                _cleanup_free_ char *fpath = NULL, *name = NULL;
                _cleanup_free_ SysvStub *service = NULL;
                struct stat st;
-               int r;

                if (hidden_file(de->d_name))
                        continue;
@@ -755,8 +755,12 @@ static int enumerate_sysv(const LookupPaths *lp, Hashmap *all_services) {
                if (!fpath)
                        return log_oom();

-               if (unit_file_lookup_state(UNIT_FILE_SYSTEM, NULL, lp, name) >= 0) {
-                       log_debug("Native unit for %s already exists, skipping", name);
+               r = unit_file_lookup_state(UNIT_FILE_SYSTEM,
```

```
 NULL, lp, name, NULL);
+                       if (r < 0 && r != -ENOENT) {
+                               log_debug_errno(r, "Failed to detect whether %s exists, skipping: %m", name);
+                               continue;
+                       } else if (r >= 0) {
+                               log_debug("Native unit for %s already exists, skipping.", name);
                                continue;
                        }

diff --git a/src/test/test-install-root.c b/src/test/test-install-root.c
new file mode 100644
index 0000000000..89d91d3d64
--- /dev/null
+++ b/src/test/test-install-root.c
@@ -0,0 +1,663 @@
+/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
+
+/***
+  This file is part of systemd.
+
+  Copyright 2011 Lennart Poettering
+
+  systemd is free software; you can redistribute it and/or modify it
+  under the terms of the GNU Lesser General Public License as published by
+  the Free Software Foundation; either version 2.1 of the
 License, or
+  (at your option) any later version.
+
+  systemd is distributed in the hope that it will be useful, but
+  WITHOUT ANY WARRANTY; without even the implied warranty of
+  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
+  Lesser General Public License for more details.
+
+  You should have received a copy of the GNU Lesser General Public License
+  along with systemd; If not, see <http://www.gnu.org/licenses/>.
+***/
+
+#include "fileio.h"
+#include "install.h"
+#include "mkdir.h"
+#include "util.h"
+
+static void test_basic_mask_and_enable(const char *root) {
+        const char *p;
+        UnitFileState state;
+        UnitFileChange *changes = NULL;
+        unsigned n_changes = 0;
+
```

```
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "a.service", NULL) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "b.service", NULL) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "c.service", NULL)
 == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "d.service", NULL) == -ENOENT);
+
+       p = strjoina(root, "/usr/lib/systemd/system/a.service");
+       assert_se(write_string_file(p,
+                                   "[Install]\n"
+                                   "WantedBy=multi-user.target\n") >= 0);
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "a.service", NULL) >= 0);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "a.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       p = strjoina(root, "/usr/lib/systemd/system/b.service");
+       assert_se(symlink("a.service", p) >= 0);
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "b.service", NULL) >= 0);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "b.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       p = strjoina(root, "/usr/lib/systemd/system/c.service");
+       assert_se(symlink("/usr/lib/systemd/system/a.service",
 p) >= 0);
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "c.service", NULL) >= 0);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "c.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       p = strjoina(root, "/usr/lib/systemd/system/d.service");
+       assert_se(symlink("c.service", p) >= 0);
+
+       /* This one is interesting, as d follows a relative, then an absolute symlink */
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "d.service", NULL) >= 0);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "d.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       assert_se(unit_file_mask(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("a.service"), false, &changes,
&n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/dev/null"));
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/a.service");
+
      assert_se(streq(changes[0].path, p));
+
+       unit_file_changes_free(changes, n_changes);
```

```
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "a.service", &state) >= 0 && state ==
UNIT_FILE_MASKED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "b.service", &state) >= 0 && state ==
UNIT_FILE_MASKED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "c.service", &state) >= 0 && state ==
UNIT_FILE_MASKED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "d.service", &state) >= 0 && state ==
UNIT_FILE_MASKED);
+
+       /* Enabling a masked unit should fail! */
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("a.service"), false, &changes,
&n_changes) == -ESHUTDOWN);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_unmask(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("a.service"),
 &changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_UNLINK);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/a.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("a.service"), false, &changes,
&n_changes) == 1);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/a.service"));
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/a.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "a.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+
    assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "b.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "c.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "d.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+
+       /* Enabling it again should succeed but be a NOP */
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("a.service"), false, &changes,
```

```
&n_changes) == 1);
+       assert_se(n_changes == 0);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_disable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("a.service"), &changes,
&n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_UNLINK);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/a.service");
+       assert_se(streq(changes[0].path,
 p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "a.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "b.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "c.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "d.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       /* Disabling a disabled unit must suceed but be a NOP */
+       assert_se(unit_file_disable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("a.service"), &changes,
&n_changes) >= 0);
+       assert_se(n_changes == 0);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       /* Let's enable this indirectly via a symlink */
+
 assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("d.service"), false, &changes,
&n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/a.service"));
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/a.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "a.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "b.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "c.service", &state) >= 0 && state ==
```

```
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "d.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+
+
      /* Let's try to reenable */
+
+       assert_se(unit_file_reenable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("b.service"), false, &changes,
&n_changes) >= 0);
+       assert_se(n_changes == 2);
+       assert_se(changes[0].type == UNIT_FILE_UNLINK);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/a.service");
+       assert_se(streq(changes[0].path, p));
+       assert_se(changes[1].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[1].source, "/usr/lib/systemd/system/a.service"));
+       assert_se(streq(changes[1].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "a.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "b.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root,
 "c.service", &state) >= 0 && state == UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "d.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+}
+
+static void test_linked_units(const char *root) {
+       const char *p, *q;
+       UnitFileState state;
+       UnitFileChange *changes = NULL;
+       unsigned n_changes = 0, i;
+
+       /*
+        * We'll test three cases here:
+        *
+        * a) a unit file in /opt, that we use "systemctl link" and
+        * "systemctl enable" on to make it available to the system
+        *
+        * b) a unit file in /opt, that is statically linked into
+        * /usr/lib/systemd/system, that "enable" should work on
+        * correctly.
+        *
+        * c) a unit file in /opt, that is linked into
+        * /etc/systemd/system, and where "enable" should result in
+        * -ELOOP, since using information from /etc to generate
```

```
+         * information in /etc should not be allowed.
+
        */
+
+       p = strjoina(root, "/opt/linked.service");
+       assert_se(write_string_file(p,
+                                   "[Install]\n"
+                                   "WantedBy=multi-user.target\n") >= 0);
+
+       p = strjoina(root, "/opt/linked2.service");
+       assert_se(write_string_file(p,
+                                   "[Install]\n"
+                                   "WantedBy=multi-user.target\n") >= 0);
+
+       p = strjoina(root, "/opt/linked3.service");
+       assert_se(write_string_file(p,
+                                   "[Install]\n"
+                                   "WantedBy=multi-user.target\n") >= 0);
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked.service", NULL) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked2.service", NULL) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked3.service", NULL) == -ENOENT);
+
+       p = strjoina(root,
 "/usr/lib/systemd/system/linked2.service");
+       assert_se(symlink("/opt/linked2.service", p) >= 0);
+
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/linked3.service");
+       assert_se(symlink("/opt/linked3.service", p) >= 0);
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked.service", &state) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked2.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked3.service", &state) >= 0 && state ==
UNIT_FILE_LINKED);
+
+       /* First, let's link the unit into the search path */
+       assert_se(unit_file_link(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("/opt/linked.service"), false,
&changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/opt/linked.service"));
+       p = strjoina(root,
 SYSTEM_CONFIG_UNIT_PATH"/linked.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
```

```
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked.service", &state) >= 0 && state ==
UNIT_FILE_LINKED);
+
+       /* Let's unlink it from the search path again */
+       assert_se(unit_file_disable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("linked.service"), &changes,
&n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_UNLINK);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/linked.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked.service", NULL) == -ENOENT);
+
+       /* Now, let's not just link it, but also enable it */
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM,
 false, root, STRV_MAKE("/opt/linked.service"), false, &changes, &n_changes) >= 0);
+       assert_se(n_changes == 2);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/linked.service");
+       q = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/linked.service");
+       for (i = 0 ; i < n_changes; i++) {
+               assert_se(changes[i].type == UNIT_FILE_SYMLINK);
+               assert_se(streq(changes[i].source, "/opt/linked.service"));
+
+               if (p && streq(changes[i].path, p))
+                       p = NULL;
+               else if (q && streq(changes[i].path, q))
+                       q = NULL;
+               else
+                       assert_not_reached("wut?");
+       }
+       assert(!p && !q);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+
+
      /* And let's unlink it again */
+       assert_se(unit_file_disable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("linked.service"), &changes,
&n_changes) >= 0);
+       assert_se(n_changes == 2);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/linked.service");
+       q = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/linked.service");
+       for (i = 0; i < n_changes; i++) {
+               assert_se(changes[i].type == UNIT_FILE_UNLINK);
```

```
+
+               if (p && streq(changes[i].path, p))
+                       p = NULL;
+               else if (q && streq(changes[i].path, q))
+                       q = NULL;
+               else
+                       assert_not_reached("wut?");
+       }
+       assert(!p && !q);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "linked.service", NULL) == -ENOENT);
+
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM,
 false, root, STRV_MAKE("linked2.service"), false, &changes, &n_changes) >= 0);
+       assert_se(n_changes == 2);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/linked2.service");
+       q = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/linked2.service");
+       for (i = 0 ; i < n_changes; i++) {
+               assert_se(changes[i].type == UNIT_FILE_SYMLINK);
+               assert_se(streq(changes[i].source, "/opt/linked2.service"));
+
+               if (p && streq(changes[i].path, p))
+                       p = NULL;
+               else if (q && streq(changes[i].path, q))
+                       q = NULL;
+               else
+                       assert_not_reached("wut?");
+       }
+       assert(!p && !q);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("linked3.service"), false,
 &changes, &n_changes) == -ELOOP);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+}
+
+static void test_default(const char *root) {
+       _cleanup_free_ char *def = NULL;
+       UnitFileChange *changes = NULL;
+       unsigned n_changes = 0;
+       const char *p;
+
+       p = strjoina(root, "/usr/lib/systemd/system/test-default-real.target");
+       assert_se(write_string_file(p, "# pretty much empty") >= 0);
```

```
+
+       p = strjoina(root, "/usr/lib/systemd/system/test-default.target");
+       assert_se(symlink("test-default-real.target", p) >= 0);
+
+       assert_se(unit_file_get_default(UNIT_FILE_SYSTEM, root, &def) == -ENOENT);
+
+       assert_se(unit_file_set_default(UNIT_FILE_SYSTEM, root, "idontexist.target", false, &changes,
&n_changes) == -ENOENT);
+       assert_se(n_changes == 0);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_default(UNIT_FILE_SYSTEM,
 root, &def) == -ENOENT);
+
+       assert_se(unit_file_set_default(UNIT_FILE_SYSTEM, root, "test-default.target", false, &changes,
&n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/test-default-real.target"));
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/default.target");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_default(UNIT_FILE_SYSTEM, root, &def) >= 0);
+       assert_se(streq_ptr(def, "test-default-real.target"));
+}
+
+static void test_add_dependency(const char *root) {
+       UnitFileChange *changes = NULL;
+       unsigned n_changes = 0;
+       const char *p;
+
+       p = strjoina(root, "/usr/lib/systemd/system/real-add-dependency-test-target.target");
+       assert_se(write_string_file(p,
 "# pretty much empty") >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system/add-dependency-test-target.target");
+       assert_se(symlink("real-add-dependency-test-target.target", p) >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system/real-add-dependency-test-service.service");
+       assert_se(write_string_file(p, "# pretty much empty") >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system/add-dependency-test-service.service");
+       assert_se(symlink("real-add-dependency-test-service.service", p) >= 0);
+
+       assert_se(unit_file_add_dependency(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("add-dependency-
```

```
test-service.service"), "add-dependency-test-target.target", UNIT_WANTS, false, &changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/real-add-dependency-test-service.service"));
+       p = strjoina(root,
 SYSTEM_CONFIG_UNIT_PATH"/real-add-dependency-test-target.target.wants/real-add-dependency-test-
service.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+}
+
+static void test_template_enable(const char *root) {
+       UnitFileChange *changes = NULL;
+       unsigned n_changes = 0;
+       UnitFileState state;
+       const char *p;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@.service", &state) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@def.service", &state) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@foo.service", &state) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@foo.service", &state) == -
ENOENT);
+
+       p = strjoina(root, "/usr/lib/systemd/system/template@.service");
+       assert_se(write_string_file(p,
+
                                   "[Install]\n"
+                                   "DefaultInstance=def\n"
+                                   "WantedBy=multi-user.target\n") >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system/template-symlink@.service");
+       assert_se(symlink("template@.service", p) >= 0);
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@def.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@foo.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@.service", &state) >= 0 &&
state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@def.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+
      assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@foo.service", &state) >= 0 &&
state == UNIT_FILE_DISABLED);
+
```

```
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("template@.service"), false,
&changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/template@.service"));
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/template@def.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@def.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM,
 root, "template@foo.service", &state) >= 0 && state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@.service", &state) >= 0 &&
state == UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@def.service", &state) >= 0
&& state == UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@foo.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+
+       assert_se(unit_file_disable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("template@.service"),
&changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_UNLINK);
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@.service", &state) >= 0 && state
 == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@def.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@foo.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@.service", &state) >= 0 &&
state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@def.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@foo.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("template@foo.service"), false,
&changes, &n_changes) >= 0);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/template@.service"));
```

```
+
      p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/template@foo.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@def.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@foo.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@foo.service", &state) >= 0
&& state == UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@def.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@foo.service",
 &state) >= 0 && state == UNIT_FILE_ENABLED);
+
+       assert_se(unit_file_disable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("template@foo.service"),
&changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_UNLINK);
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@def.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@foo.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@quux.service", &state) >= 0 && state
== UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM,
 root, "template-symlink@.service", &state) >= 0 && state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@def.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@foo.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@quux.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("template-
symlink@quux.service"), false, &changes, &n_changes) >= 0);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/template@.service"));
```

```
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/template@quux.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes,
 n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@def.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@foo.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template@quux.service", &state) >= 0 && state
== UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@.service", &state) >= 0 &&
state == UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@def.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@foo.service", &state) >= 0
&& state == UNIT_FILE_DISABLED);
+
      assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "template-symlink@quux.service", &state) >= 0
&& state == UNIT_FILE_ENABLED);
+}
+
+static void test_indirect(const char *root) {
+       UnitFileChange *changes = NULL;
+       unsigned n_changes = 0;
+       UnitFileState state;
+       const char *p;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirecta.service", &state) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirectb.service", &state) == -ENOENT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirectc.service", &state) == -ENOENT);
+
+       p = strjoina(root, "/usr/lib/systemd/system/indirecta.service");
+       assert_se(write_string_file(p,
+                                   "[Install]\n"
+                                   "Also=indirectb.service\n") >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system/indirectb.service");
+       assert_se(write_string_file(p,
+
                                  "[Install]\n"
+                                   "WantedBy=multi-user.target\n") >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system/indirectc.service");
+       assert_se(symlink("indirecta.service", p) >= 0);
```

```
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirecta.service", &state) >= 0 && state ==
UNIT_FILE_INDIRECT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirectb.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirectc.service", &state) >= 0 && state ==
UNIT_FILE_INDIRECT);
+
+       assert_se(unit_file_enable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("indirectc.service"), false,
&changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/indirectb.service"));
+       p = strjoina(root,
 SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/indirectb.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirecta.service", &state) >= 0 && state ==
UNIT_FILE_INDIRECT);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirectb.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "indirectc.service", &state) >= 0 && state ==
UNIT_FILE_INDIRECT);
+
+       assert_se(unit_file_disable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("indirectc.service"),
&changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_UNLINK);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/indirectb.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes,
 n_changes);
+       changes = NULL; n_changes = 0;
+}
+
+static void test_preset_and_list(const char *root) {
+       UnitFileChange *changes = NULL;
+       unsigned n_changes = 0, i;
+       const char *p, *q;
+       UnitFileState state;
+       bool got_yes = false, got_no = false;
+       Iterator j;
+       UnitFileList *fl;
+       Hashmap *h;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-yes.service", &state) == -ENOENT);
```

```
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-no.service", &state) == -ENOENT);
+
+       p = strjoina(root, "/usr/lib/systemd/system/preset-yes.service");
+       assert_se(write_string_file(p,
+                                   "[Install]\n"
+                                   "WantedBy=multi-user.target\n") >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system/preset-no.service");
+       assert_se(write_string_file(p,
+                                   "[Install]\n"
+
                                   "WantedBy=multi-user.target\n") >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system-preset/test.preset");
+       assert_se(write_string_file(p,
+                                   "enable *-yes.*\n"
+                                   "disable *\n") >= 0);
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-yes.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-no.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       assert_se(unit_file_preset(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("preset-yes.service"),
UNIT_FILE_PRESET_FULL, false, &changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_SYMLINK);
+       assert_se(streq(changes[0].source, "/usr/lib/systemd/system/preset-yes.service"));
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/preset-yes.service");
+
      assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-yes.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-no.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       assert_se(unit_file_disable(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("preset-yes.service"),
&changes, &n_changes) >= 0);
+       assert_se(n_changes == 1);
+       assert_se(changes[0].type == UNIT_FILE_UNLINK);
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/preset-yes.service");
+       assert_se(streq(changes[0].path, p));
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
```

```
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-yes.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
      assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-no.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       assert_se(unit_file_preset(UNIT_FILE_SYSTEM, false, root, STRV_MAKE("preset-no.service"),
UNIT_FILE_PRESET_FULL, false, &changes, &n_changes) >= 0);
+       assert_se(n_changes == 0);
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-yes.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-no.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       assert_se(unit_file_preset_all(UNIT_FILE_SYSTEM, false, root, UNIT_FILE_PRESET_FULL, false,
&changes, &n_changes) >= 0);
+
+       assert_se(n_changes > 0);
+
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/multi-user.target.wants/preset-yes.service");
+
+       for (i = 0; i < n_changes;
 i++) {
+
+               if (changes[i].type == UNIT_FILE_SYMLINK) {
+                       assert_se(streq(changes[i].source, "/usr/lib/systemd/system/preset-yes.service"));
+                       assert_se(streq(changes[i].path, p));
+               } else
+                       assert_se(changes[i].type == UNIT_FILE_UNLINK);
+       }
+
+       unit_file_changes_free(changes, n_changes);
+       changes = NULL; n_changes = 0;
+
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-yes.service", &state) >= 0 && state ==
UNIT_FILE_ENABLED);
+       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, "preset-no.service", &state) >= 0 && state ==
UNIT_FILE_DISABLED);
+
+       assert_se(h = hashmap_new(&string_hash_ops));
+       assert_se(unit_file_get_list(UNIT_FILE_SYSTEM, root, h) >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system/preset-yes.service");
+       q = strjoina(root, "/usr/lib/systemd/system/preset-no.service");
+
```

```
+
    HASHMAP_FOREACH(fl, h, j) {
+               assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, root, basename(fl->path), &state) >= 0);
+               assert_se(fl->state == state);
+
+               if (streq(fl->path, p)) {
+                       got_yes = true;
+                       assert_se(fl->state == UNIT_FILE_ENABLED);
+               } else if (streq(fl->path, q)) {
+                       got_no = true;
+                       assert_se(fl->state == UNIT_FILE_DISABLED);
+               } else
+                       assert_se(IN_SET(fl->state, UNIT_FILE_DISABLED, UNIT_FILE_STATIC,
UNIT_FILE_INDIRECT));
+       }
+
+       unit_file_list_free(h);
+
+       assert_se(got_yes && got_no);
+}
+
+int main(int argc, char *argv[]) {
+       char root[] = "/tmp/rootXXXXXX";
+       const char *p;
+
+       assert_se(mkdtemp(root));
+
+       p = strjoina(root, "/usr/lib/systemd/system/");
+       assert_se(mkdir_p(p, 0755) >= 0);
+
+       p = strjoina(root, SYSTEM_CONFIG_UNIT_PATH"/");
+
      assert_se(mkdir_p(p, 0755) >= 0);
+
+       p = strjoina(root, "/run/systemd/system/");
+       assert_se(mkdir_p(p, 0755) >= 0);
+
+       p = strjoina(root, "/opt/");
+       assert_se(mkdir_p(p, 0755) >= 0);
+
+       p = strjoina(root, "/usr/lib/systemd/system-preset/");
+       assert_se(mkdir_p(p, 0755) >= 0);
+
+       test_basic_mask_and_enable(root);
+       test_linked_units(root);
+       test_default(root);
+       test_add_dependency(root);
+       test_template_enable(root);
```

```
+       test_indirect(root);
+       test_preset_and_list(root);
+
+       assert_se(rm_rf_dangerous(root, false, true, false));
+
+       return 0;
+}
diff --git a/src/test/test-install.c b/src/test/test-install.c
index 467970b007..08a1faf2c4 100644
--- a/src/test/test-install.c
+++ b/src/test/test-install.c
@@ -50,17 +50,19 @@ int main(int argc, char* argv[]) {
        const char *const files2[] = { "/home/lennart/test.service", NULL };
        UnitFileChange
 *changes = NULL;
        unsigned n_changes = 0;
+       UnitFileState state = 0;

        h = hashmap_new(&string_hash_ops);
        r = unit_file_get_list(UNIT_FILE_SYSTEM, NULL, h);
        assert_se(r == 0);

        HASHMAP_FOREACH(p, h, i) {
-               UnitFileState s;
+               UnitFileState s = _UNIT_FILE_STATE_INVALID;

-               s = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(p->path));
+               r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(p->path), &s);

-               assert_se(p->state == s);
+               assert_se((r < 0 && p->state == UNIT_FILE_BAD) ||
+                         (p->state == s));

               fprintf(stderr, "%s (%s)\n",
                       p->path,
@@ -82,7 +84,9 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0])
 == UNIT_FILE_ENABLED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0], &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_ENABLED);

        log_error("disable");

@@ -95,7 +99,9 @@ int main(int argc, char* argv[]) {
```

```
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0]) == UNIT_FILE_DISABLED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0], &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_DISABLED);

        log_error("mask");
        changes = NULL;
@@ -110,7 +116,9 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0]) == UNIT_FILE_MASKED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0], &state);
+
    assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_MASKED);

        log_error("unmask");
        changes = NULL;
@@ -125,7 +133,9 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0]) == UNIT_FILE_DISABLED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0], &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_DISABLED);

        log_error("mask");
        changes = NULL;
@@ -137,7 +147,9 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0]) == UNIT_FILE_MASKED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0], &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_MASKED);

        log_error("disable");
        changes = NULL;
@@ -152,7 +164,9 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);
```

```
-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0]) == UNIT_FILE_MASKED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0], &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_MASKED);

        log_error("umask");
        changes = NULL;
@@ -164,7 +178,9 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0]) == UNIT_FILE_DISABLED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, files[0], &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_DISABLED);

        log_error("enable files2");
        changes = NULL;
@@ -176,19 +192,22 @@ int main(int argc,
 char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0])) ==
UNIT_FILE_ENABLED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0]), &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_ENABLED);

        log_error("disable files2");
        changes = NULL;
        n_changes = 0;

-       r = unit_file_disable(UNIT_FILE_SYSTEM, false, NULL, (char**) files2, &changes, &n_changes);
+       r = unit_file_disable(UNIT_FILE_SYSTEM, false, NULL, STRV_MAKE(basename(files2[0])), &changes,
&n_changes);
        assert_se(r >= 0);

        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0])) ==
_UNIT_FILE_STATE_INVALID);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0]),
 &state);
+       assert_se(r < 0);

        log_error("link files2");
```

```
        changes = NULL;
@@ -200,19 +219,22 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0])) ==
UNIT_FILE_LINKED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0]), &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_LINKED);

        log_error("disable files2");
        changes = NULL;
        n_changes = 0;

-       r = unit_file_disable(UNIT_FILE_SYSTEM, false, NULL, (char**) files2, &changes, &n_changes);
+       r = unit_file_disable(UNIT_FILE_SYSTEM, false, NULL, STRV_MAKE(basename(files2[0])), &changes,
&n_changes);
        assert_se(r >= 0);

        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM,
 NULL, basename(files2[0])) == _UNIT_FILE_STATE_INVALID);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0]), &state);
+       assert_se(r < 0);

        log_error("link files2");
        changes = NULL;
@@ -224,7 +246,9 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0])) ==
UNIT_FILE_LINKED);
+       r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0]), &state);
+       assert_se(r >= 0);
+       assert_se(state == UNIT_FILE_LINKED);

        log_error("reenable files2");
        changes = NULL;
@@ -236,19 +260,22 @@ int main(int argc, char* argv[]) {
        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-       assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0])) ==
UNIT_FILE_ENABLED);
```

```
+
        r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0]), &state);
+         assert_se(r >= 0);
+         assert_se(state == UNIT_FILE_ENABLED);

        log_error("disable files2");
        changes = NULL;
        n_changes = 0;

-         r = unit_file_disable(UNIT_FILE_SYSTEM, false, NULL, (char**) files2, &changes, &n_changes);
+         r = unit_file_disable(UNIT_FILE_SYSTEM, false, NULL, STRV_MAKE(basename(files2[0])), &changes,
&n_changes);
        assert_se(r >= 0);

        dump_changes(changes, n_changes);
        unit_file_changes_free(changes, n_changes);

-         assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0])) ==
_UNIT_FILE_STATE_INVALID);
+         r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files2[0]), &state);
+         assert_se(r < 0);
        log_error("preset files");
        changes = NULL;
        n_changes = 0;
@@ -259,7 +286,9 @@ int main(int argc, char* argv[]) {
        dump_changes(changes,
 n_changes);
        unit_file_changes_free(changes, n_changes);

-         assert_se(unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files[0])) ==
UNIT_FILE_ENABLED);
+         r = unit_file_get_state(UNIT_FILE_SYSTEM, NULL, basename(files[0]), &state);
+         assert_se(r >= 0);
+         assert_se(state == UNIT_FILE_ENABLED);

        return 0;
}
```

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0296-install-follow-unit-file-symlinks-in-usr-but-not-etc.patch
No license file was found, but licenses were detected in source scan.

From b4bfb025f7ab0878e8e7e980dbad5b0a5bed1555 Mon Sep 17 00:00:00 2001
From: Lennart Poettering <lennart@poettering.net>
Date: Thu, 10 Dec 2015 12:40:04 +0100
Subject: [PATCH] importd: drop dkr support

The current code is not compatible with current dkr protocols anyway,
and dkr has a different focus ("microservices") than nspawn anyway
("whole machine containers"), hence drop support for it, we cannot
reasonably keep this up to date, and it creates the impression we'd
actually care for the microservices usecase.

Cherry-picked from: b43d75c
Related: #1284974

Makefile.am | 2 -
TODO | 4 -
configure.ac | 9 -
man/machinectl.xml | 58 --
src/import/import-dkr.c | 891 ----------
src/import/import-dkr.h | 36 -
src/import/importd.c
| 111 +--
src/import/org.freedesktop.import1.conf | 4 -
src/import/pull.c | 119 +---
src/machine/machinectl.c | 90 +--
src/shared/import-util.c | 31 -
src/shared/import-util.h | 4 -
12 files changed, 5 insertions(+), 1354 deletions(-)
delete mode 100644 src/import/import-dkr.c
delete mode 100644 src/import/import-dkr.h

diff --git a/Makefile.am b/Makefile.am
index 3a09e0a62b..b0a34b212d 100644
--- a/Makefile.am
+++ b/Makefile.am
@@ -5369,8 +5369,6 @@ systemd_pull_SOURCES = \
 src/import/import-raw.h \
 src/import/import-tar.c \
 src/import/import-tar.h \
- src/import/import-dkr.c \
- src/import/import-dkr.h \
 src/import/import-job.c \
 src/import/import-job.h \
 src/import/import-common.c \
diff --git a/TODO b/TODO
index 90b2c4b30a..d96d2bf0ee 100644
--- a/TODO
+++ b/TODO
@@ -126,10 +126,6 @@ Features:

* rework journald sigbus stuff to use mutex

-* import-dkr: support tarsum checksum verification,

```
 if it becomes reality one day...
-
-* import-dkr: convert json bits to nspawn configuration
-
* import: support import from local files, and export to local files

* core/cgroup: support net_cls modules, and support automatically allocating class ids, then add support for making firewall changes depending on it, to implement a per-service firewall
diff --git a/configure.ac b/configure.ac
index 9103f9b923..2734368dc0 100644
--- a/configure.ac
+++ b/configure.ac
@@ -1389,14 +1389,6 @@ AC_ARG_ENABLE([split-usr],
               enable_split_usr=no
         ])])

-AC_ARG_WITH([dkr-index-url],
-       [AS_HELP_STRING([--dkr-index-url=URL], [Specify the default index URL to use for image downloads])],
-       [DEFAULT_DKR_INDEX_URL="\"$withval\""],
-       [DEFAULT_DKR_INDEX_URL="NULL"])
-
-AC_DEFINE_UNQUOTED(DEFAULT_DKR_INDEX_URL, [$DEFAULT_DKR_INDEX_URL], [Default index URL to use for image downloads])
-AC_SUBST(DEFAULT_DKR_INDEX_URL)
-
AS_IF([test "x${enable_split_usr}" = "xyes"],
 [
        AC_DEFINE(HAVE_SPLIT_USR, 1, [Define if /bin, /sbin aren't symlinks into /usr])
])
@@ -1564,7 +1556,6 @@ AC_MSG_RESULT([
        Maximum System UID:     ${SYSTEM_UID_MAX}
        Maximum System GID:     ${SYSTEM_GID_MAX}
        Certificate root:       ${CERTIFICATEROOT}
-       Default dkr Index       ${DEFAULT_DKR_INDEX_URL}

        CFLAGS:                 ${OUR_CFLAGS} ${CFLAGS}
        CPPFLAGS:               ${OUR_CPPFLAGS} ${CPPFLAGS}
diff --git a/man/machinectl.xml b/man/machinectl.xml
index 640cb8b7d6..b0a7f2ae49 100644
--- a/man/machinectl.xml
+++ b/man/machinectl.xml
@@ -204,16 +204,6 @@
        image.</para></listitem>
      </varlistentry>

-     <varlistentry>
-       <term><option>--dkr-index-url</option></term>
-
```

```
-       <listitem><para>Specifies the index server to use for
-       downloading <literal>dkr</literal> images with the
-       <command>pull-dkr</command>. Takes a
-       <literal>http://</literal>, <literal>https://</literal>
-
        URL.</para></listitem>
-      </varlistentry>
-
     <xi:include href="user-system-options.xml" xpointer="host" />
     <xi:include href="user-system-options.xml" xpointer="machine" />

@@ -602,42 +592,6 @@
        below.</para></listitem>
      </varlistentry>

-     <varlistentry>
-       <term><command>pull-dkr</command> <replaceable>REMOTE</replaceable>
[<replaceable>NAME</replaceable>]</term>
-
-       <listitem><para>Downloads a <literal>dkr</literal> container
-       image and makes it available locally. The remote name refers
-       to a <literal>dkr</literal> container name. If omitted, the
-       local machine name is derived from the <literal>dkr</literal>
-       container name.</para>
-
-       <para>Image verification is not available for
-       <literal>dkr</literal> containers, and thus
-       <option>--verify=no</option> must always be specified with
-       this command.</para>
-
-       <para>This command downloads all (missing)
 layers for the
-       specified container and places them in read-only subvolumes in
-       <filename>/var/lib/machines/</filename>. A writable snapshot
-       of the newest layer is then created under the specified local
-       machine name. To omit creation of this writable snapshot, pass
-       <literal>-</literal> as local machine name.</para>
-
-       <para>The read-only layer subvolumes are prefixed with
-       <filename>.dkr-</filename>, and thus now shown by
-       <command>list-images</command>, unless <option>--all</option>
-       is passed.</para>
-
-       <para>To specify the <literal>dkr</literal> index server to
-       use for looking up the specified container, use
-       <option>--dkr-index-url=</option>.</para>
-
-       <para>Note that pressing C-c during execution of this command
```

```
-       will not abort the download. Use
-       <command>cancel-transfer</command>, described
-       below.</para></listitem>
-     </varlistentry>
-

   <varlistentry>
      <term><command>list-transfers</command></term>

@@ -728,18 +682,6 @@
     the machine started as system service. With the last command a
     login prompt into the container is requested.</para>
   </example>
-
-   <example>
-     <title>Download a Fedora <literal>dkr</literal> image</title>
-
-     <programlisting># machinectl pull-dkr --verify=no mattdm/fedora
-# systemd-nspawn -M fedora</programlisting>
-
-     <para>Downloads a <literal>dkr</literal> image and opens a shell
-     in it. Note that the specified download command might require an
-     index server to be specified with the
-     <literal>--dkr-index-url=</literal>.</para>
-   </example>
  </refsect1>

  <refsect1>
diff --git a/src/import/import-dkr.c b/src/import/import-dkr.c
deleted file mode 100644
index fb72f6cee3..0000000000
--- a/src/import/import-dkr.c
+++ /dev/null
@@ -1,891 +0,0 @@
-/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
-
-/***
-  This file is
  part of systemd.
-
-  Copyright 2014 Lennart Poettering
-
-  systemd is free software; you can redistribute it and/or modify it
-  under the terms of the GNU Lesser General Public License as published by
-  the Free Software Foundation; either version 2.1 of the License, or
-  (at your option) any later version.
-
-  systemd is distributed in the hope that it will be useful, but
```

```
-  WITHOUT ANY WARRANTY; without even the implied warranty of
-  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
-  Lesser General Public License for more details.
-
-  You should have received a copy of the GNU Lesser General Public License
-  along with systemd; If not, see <http://www.gnu.org/licenses/>.
-***/
-
-#include <curl/curl.h>
-#include <sys/prctl.h>
-
-#include "sd-daemon.h"
-#include "json.h"
-#include "strv.h"
-#include "btrfs-util.h"
-#include "utf8.h"
-#include "mkdir.h"
-#include "import-util.h"
-#include "curl-util.h"
-#include "aufs-util.h"
-#include "import-job.h"
-#include
 "import-common.h"
-#include "import-dkr.h"
-
-typedef enum DkrProgress {
-       DKR_SEARCHING,
-       DKR_RESOLVING,
-       DKR_METADATA,
-       DKR_DOWNLOADING,
-       DKR_COPYING,
-} DkrProgress;
-
-struct DkrImport {
-       sd_event *event;
-       CurlGlue *glue;
-
-       char *index_url;
-       char *image_root;
-
-       ImportJob *images_job;
-       ImportJob *tags_job;
-       ImportJob *ancestry_job;
-       ImportJob *json_job;
-       ImportJob *layer_job;
-
-       char *name;
-       char *tag;
```

```
-       char *id;
-
-       char *response_token;
-       char **response_registries;
-
-       char **ancestry;
-       unsigned n_ancestry;
-       unsigned current_ancestry;
-
-       DkrImportFinished on_finished;
-       void *userdata;
-
-       char *local;
-       bool force_local;
-
-       char *temp_path;
-       char *final_path;
-
-       pid_t tar_pid;
-};
-
-#define PROTOCOL_PREFIX "https://"
-
-#define HEADER_TOKEN "X-Do" /* the
 HTTP header for the auth token */ "cker-Token:"
-#define HEADER_REGISTRY "X-Do" /*the HTTP header for the registry */ "cker-Endpoints:"
-
-#define LAYERS_MAX 2048
-
-static void dkr_import_job_on_finished(ImportJob *j);
-
-DkrImport* dkr_import_unref(DkrImport *i) {
-       if (!i)
-               return NULL;
-
-       if (i->tar_pid > 1) {
-               (void) kill_and_sigcont(i->tar_pid, SIGKILL);
-               (void) wait_for_terminate(i->tar_pid, NULL);
-       }
-
-       import_job_unref(i->images_job);
-       import_job_unref(i->tags_job);
-       import_job_unref(i->ancestry_job);
-       import_job_unref(i->json_job);
-       import_job_unref(i->layer_job);
-
-       curl_glue_unref(i->glue);
-       sd_event_unref(i->event);
```

```
-
-       if (i->temp_path) {
-               (void) btrfs_subvol_remove(i->temp_path);
-               (void) rm_rf_dangerous(i->temp_path, false, true, false);
-               free(i->temp_path);
-       }
-
-       free(i->name);
-
       free(i->tag);
-       free(i->id);
-       free(i->response_token);
-       free(i->response_registries);
-       strv_free(i->ancestry);
-       free(i->final_path);
-       free(i->index_url);
-       free(i->image_root);
-       free(i->local);
-       free(i);
-
-       return NULL;
-}
-
-int dkr_import_new(
-               DkrImport **ret,
-               sd_event *event,
-               const char *index_url,
-               const char *image_root,
-               DkrImportFinished on_finished,
-               void *userdata) {
-
-       _cleanup_(dkr_import_unrefp) DkrImport *i = NULL;
-       char *e;
-       int r;
-
-       assert(ret);
-       assert(index_url);
-
-       if (!http_url_is_valid(index_url))
-               return -EINVAL;
-
-       i = new0(DkrImport, 1);
-       if (!i)
-               return -ENOMEM;
-
-       i->on_finished = on_finished;
-       i->userdata = userdata;
-
```

```
-       i->image_root = strdup(image_root
 ?: "/var/lib/machines");
-       if (!i->image_root)
-               return -ENOMEM;
-
-       i->index_url = strdup(index_url);
-       if (!i->index_url)
-               return -ENOMEM;
-
-       e = endswith(i->index_url, "/");
-       if (e)
-               *e = 0;
-
-       if (event)
-               i->event = sd_event_ref(event);
-       else {
-               r = sd_event_default(&i->event);
-               if (r < 0)
-                       return r;
-       }
-
-       r = curl_glue_new(&i->glue, i->event);
-       if (r < 0)
-               return r;
-
-       i->glue->on_finished = import_job_curl_on_finished;
-       i->glue->userdata = i;
-
-       *ret = i;
-       i = NULL;
-
-       return 0;
-}
-
-static void dkr_import_report_progress(DkrImport *i, DkrProgress p) {
-       unsigned percent;
-
-       assert(i);
-
-       switch (p) {
-
-       case DKR_SEARCHING:
-               percent = 0;
-               if (i->images_job)
-
-                   percent += i->images_job->progress_percent * 5 / 100;
-               break;
-
```

```
-       case DKR_RESOLVING:
-               percent = 5;
-               if (i->tags_job)
-                       percent += i->tags_job->progress_percent * 5 / 100;
-               break;
-
-       case DKR_METADATA:
-               percent = 10;
-               if (i->ancestry_job)
-                       percent += i->ancestry_job->progress_percent * 5 / 100;
-               if (i->json_job)
-                       percent += i->json_job->progress_percent * 5 / 100;
-               break;
-
-       case DKR_DOWNLOADING:
-               percent = 20;
-               percent += 75 * i->current_ancestry / MAX(1U, i->n_ancestry);
-               if (i->layer_job)
-                       percent += i->layer_job->progress_percent * 75 / MAX(1U, i->n_ancestry) / 100;
-
-               break;
-
-       case DKR_COPYING:
-               percent = 95;
-               break;
-
-
      default:
-               assert_not_reached("Unknown progress state");
-       }
-
-       sd_notifyf(false, "X_IMPORT_PROGRESS=%u", percent);
-       log_debug("Combined progress %u%%", percent);
-}
-
-static int parse_id(const void *payload, size_t size, char **ret) {
-       _cleanup_free_ char *buf = NULL, *id = NULL, *other = NULL;
-       union json_value v = {};
-       void *json_state = NULL;
-       const char *p;
-       int t;
-
-       assert(payload);
-       assert(ret);
-
-       if (size <= 0)
-               return -EBADMSG;
-
```

```
-       if (memchr(payload, 0, size))
-               return -EBADMSG;
-
-       buf = strndup(payload, size);
-       if (!buf)
-               return -ENOMEM;
-
-       p = buf;
-       t = json_tokenize(&p, &id, &v, &json_state, NULL);
-       if (t < 0)
-               return t;
-       if (t != JSON_STRING)
-               return -EBADMSG;
-
-       t = json_tokenize(&p, &other, &v, &json_state, NULL);
-
  if (t < 0)
-               return t;
-       if (t != JSON_END)
-               return -EBADMSG;
-
-       if (!dkr_id_is_valid(id))
-               return -EBADMSG;
-
-       *ret = id;
-       id = NULL;
-
-       return 0;
-}
-
-static int parse_ancestry(const void *payload, size_t size, char ***ret) {
-       _cleanup_free_ char *buf = NULL;
-       void *json_state = NULL;
-       const char *p;
-       enum {
-               STATE_BEGIN,
-               STATE_ITEM,
-               STATE_COMMA,
-               STATE_END,
-       } state = STATE_BEGIN;
-       _cleanup_strv_free_ char **l = NULL;
-       size_t n = 0, allocated = 0;
-
-       if (size <= 0)
-               return -EBADMSG;
-
-       if (memchr(payload, 0, size))
-               return -EBADMSG;
```

```
-
-       buf = strndup(payload, size);
-       if (!buf)
-               return -ENOMEM;
-
-       p = buf;
-       for (;;) {
-               _cleanup_free_ char *str;
-               union
 json_value v = {};
-               int t;
-
-               t = json_tokenize(&p, &str, &v, &json_state, NULL);
-               if (t < 0)
-                       return t;
-
-               switch (state) {
-
-               case STATE_BEGIN:
-                       if (t == JSON_ARRAY_OPEN)
-                               state = STATE_ITEM;
-                       else
-                               return -EBADMSG;
-
-                       break;
-
-               case STATE_ITEM:
-                       if (t == JSON_STRING) {
-                               if (!dkr_id_is_valid(str))
-                                       return -EBADMSG;
-
-                               if (n+1 > LAYERS_MAX)
-                                       return -EFBIG;
-
-                               if (!GREEDY_REALLOC(l, allocated, n + 2))
-                                       return -ENOMEM;
-
-                               l[n++] = str;
-
 str = NULL;
-                               l[n] = NULL;
-
-                               state = STATE_COMMA;
-
-                       } else if (t == JSON_ARRAY_CLOSE)
-                               state = STATE_END;
-                       else
-                               return -EBADMSG;
```

```
-
-                 break;
-
-         case STATE_COMMA:
-                 if (t == JSON_COMMA)
-                         state = STATE_ITEM;
-                 else if (t == JSON_ARRAY_CLOSE)
-                         state = STATE_END;
-                 else
-                         return -EBADMSG;
-                 break;
-
-         case STATE_END:
-                 if (t == JSON_END) {
-
-                         if (strv_isempty(l))
-                                 return -EBADMSG;
-
-                         if (!strv_is_uniq(l))
-                                 return -EBADMSG;
-
-
                        l = strv_reverse(l);
-
-                         *ret = l;
-                         l = NULL;
-                         return 0;
-                 } else
-                         return -EBADMSG;
-         }
-
-     }
-}
-
-static const char *dkr_import_current_layer(DkrImport *i) {
-     assert(i);
-
-     if (strv_isempty(i->ancestry))
-             return NULL;
-
-     return i->ancestry[i->current_ancestry];
-}
-
-static const char *dkr_import_current_base_layer(DkrImport *i) {
-     assert(i);
-
-     if (strv_isempty(i->ancestry))
-             return NULL;
```

```
-
-       if (i->current_ancestry <= 0)
-               return NULL;
-
-       return i->ancestry[i->current_ancestry-1];
-}
-
-static int dkr_import_add_token(DkrImport *i, ImportJob *j) {
-       const char *t;
-
-       assert(i);
-       assert(j);
-
-       if (i->response_token)
-               t = strjoina("Authorization:
 Token ", i->response_token);
-       else
-               t = HEADER_TOKEN " true";
-
-       j->request_header = curl_slist_new("Accept: application/json", t, NULL);
-       if (!j->request_header)
-               return -ENOMEM;
-
-       return 0;
-}
-
-static bool dkr_import_is_done(DkrImport *i) {
-       assert(i);
-       assert(i->images_job);
-
-       if (i->images_job->state != IMPORT_JOB_DONE)
-               return false;
-
-       if (!i->tags_job || i->tags_job->state != IMPORT_JOB_DONE)
-               return false;
-
-       if (!i->ancestry_job || i->ancestry_job->state != IMPORT_JOB_DONE)
-               return false;
-
-       if (!i->json_job || i->json_job->state != IMPORT_JOB_DONE)
-               return false;
-
-       if (i->layer_job && i->layer_job->state != IMPORT_JOB_DONE)
-               return false;
-
-       if (dkr_import_current_layer(i))
-               return false;
-
```

```
-       return true;
-}
-
-static int dkr_import_make_local_copy(DkrImport
 *i) {
-       int r;
-
-       assert(i);
-
-       if (!i->local)
-               return 0;
-
-       if (!i->final_path) {
-               i->final_path = strjoin(i->image_root, "/.dkr-", i->id, NULL);
-               if (!i->final_path)
-                       return log_oom();
-       }
-
-       r = import_make_local_copy(i->final_path, i->image_root, i->local, i->force_local);
-       if (r < 0)
-               return r;
-
-       return 0;
-}
-
-static int dkr_import_job_on_open_disk(ImportJob *j) {
-       const char *base;
-       DkrImport *i;
-       int r;
-
-       assert(j);
-       assert(j->userdata);
-
-       i = j->userdata;
-       assert(i->layer_job == j);
-       assert(i->final_path);
-       assert(!i->temp_path);
-       assert(i->tar_pid <= 0);
-
-       r = tempfn_random(i->final_path, &i->temp_path);
-       if (r < 0)
-               return log_oom();
-
-       mkdir_parents_label(i->temp_path,
 0700);
-
-       base = dkr_import_current_base_layer(i);
-       if (base) {
```

```
-               const char *base_path;
-
-               base_path = strjoina(i->image_root, "/.dkr-", base);
-               r = btrfs_subvol_snapshot(base_path, i->temp_path, false, true);
-       } else
-               r = btrfs_subvol_make(i->temp_path);
-       if (r < 0)
-               return log_error_errno(r, "Failed to make btrfs subvolume %s: %m", i->temp_path);
-
-       j->disk_fd = import_fork_tar(i->temp_path, &i->tar_pid);
-       if (j->disk_fd < 0)
-               return j->disk_fd;
-
-       return 0;
-}
-
-static void dkr_import_job_on_progress(ImportJob *j) {
-       DkrImport *i;
-
-       assert(j);
-       assert(j->userdata);
-
-       i = j->userdata;
-
-       dkr_import_report_progress(
-                       i,
-                       j == i->images_job                  ? DKR_SEARCHING :
-                       j == i->tags_job                    ?
 DKR_RESOLVING :
-                       j == i->ancestry_job || j == i->json_job ? DKR_METADATA :
-                                                                  DKR_DOWNLOADING);
-}
-
-static int dkr_import_pull_layer(DkrImport *i) {
-       _cleanup_free_ char *path = NULL;
-       const char *url, *layer = NULL;
-       int r;
-
-       assert(i);
-       assert(!i->layer_job);
-       assert(!i->temp_path);
-       assert(!i->final_path);
-
-       for (;;) {
-               layer = dkr_import_current_layer(i);
-               if (!layer)
-                       return 0; /* no more layers */
-
```

```
-               path = strjoin(i->image_root, "/.dkr-", layer, NULL);
-               if (!path)
-                       return log_oom();
-
-               if (laccess(path, F_OK) < 0) {
-                       if (errno == ENOENT)
-                               break;
-
-                       return log_error_errno(errno, "Failed to check for container: %m");
-
             }
-
-               log_info("Layer %s already exists, skipping.", layer);
-
-               i->current_ancestry++;
-
-               free(path);
-               path = NULL;
-       }
-
-       log_info("Pulling layer %s...", layer);
-
-       i->final_path = path;
-       path = NULL;
-
-       url = strjoina(PROTOCOL_PREFIX, i->response_registries[0], "/v1/images/", layer, "/layer");
-       r = import_job_new(&i->layer_job, url, i->glue, i);
-       if (r < 0)
-               return log_error_errno(r, "Failed to allocate layer job: %m");
-
-       r = dkr_import_add_token(i, i->layer_job);
-       if (r < 0)
-               return log_oom();
-
-       i->layer_job->on_finished = dkr_import_job_on_finished;
-       i->layer_job->on_open_disk = dkr_import_job_on_open_disk;
-       i->layer_job->on_progress = dkr_import_job_on_progress;
-
-       r = import_job_begin(i->layer_job);
-       if (r < 0)
-               return log_error_errno(r, "Failed to
 start layer job: %m");
-
-       return 0;
-}
-
-static void dkr_import_job_on_finished(ImportJob *j) {
-       DkrImport *i;
```

```
-       int r;
-
-       assert(j);
-       assert(j->userdata);
-
-       i = j->userdata;
-       if (j->error != 0) {
-               if (j == i->images_job)
-                       log_error_errno(j->error, "Failed to retrieve images list. (Wrong index URL?)");
-               else if (j == i->tags_job)
-                       log_error_errno(j->error, "Failed to retrieve tags list.");
-               else if (j == i->ancestry_job)
-                       log_error_errno(j->error, "Failed to retrieve ancestry list.");
-               else if (j == i->json_job)
-                       log_error_errno(j->error, "Failed to retrieve json data.");
-               else
-                       log_error_errno(j->error, "Failed to retrieve layer data.");
-
-               r = j->error;
-               goto finish;
-       }
-
-       if (i->images_job
 == j) {
-               const char *url;
-
-               assert(!i->tags_job);
-               assert(!i->ancestry_job);
-               assert(!i->json_job);
-               assert(!i->layer_job);
-
-               if (strv_isempty(i->response_registries)) {
-                       r = -EBADMSG;
-                       log_error("Didn't get registry information.");
-                       goto finish;
-               }
-
-               log_info("Index lookup succeeded, directed to registry %s.", i->response_registries[0]);
-               dkr_import_report_progress(i, DKR_RESOLVING);
-
-               url = strjoina(PROTOCOL_PREFIX, i->response_registries[0], "/v1/repositories/", i->name, "/tags/", i-
>tag);
-               r = import_job_new(&i->tags_job, url, i->glue, i);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to allocate tags job: %m");
-                       goto finish;
-               }
-
```

```
-               r =
 dkr_import_add_token(i, i->tags_job);
-               if (r < 0) {
-                       log_oom();
-                       goto finish;
-               }
-
-               i->tags_job->on_finished = dkr_import_job_on_finished;
-               i->tags_job->on_progress = dkr_import_job_on_progress;
-
-               r = import_job_begin(i->tags_job);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to start tags job: %m");
-                       goto finish;
-               }
-
-       } else if (i->tags_job == j) {
-               const char *url;
-               char *id = NULL;
-
-               assert(!i->ancestry_job);
-               assert(!i->json_job);
-               assert(!i->layer_job);
-
-               r = parse_id(j->payload, j->payload_size, &id);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to parse JSON id.");
-                       goto finish;
-               }
-
-
      free(i->id);
-               i->id = id;
-
-               log_info("Tag lookup succeeded, resolved to layer %s.", i->id);
-               dkr_import_report_progress(i, DKR_METADATA);
-
-               url = strjoina(PROTOCOL_PREFIX, i->response_registries[0], "/v1/images/", i->id, "/ancestry");
-               r = import_job_new(&i->ancestry_job, url, i->glue, i);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to allocate ancestry job: %m");
-                       goto finish;
-               }
-
-               r = dkr_import_add_token(i, i->ancestry_job);
-               if (r < 0) {
-                       log_oom();
-                       goto finish;
```

```
-               }
-
-               i->ancestry_job->on_finished = dkr_import_job_on_finished;
-               i->ancestry_job->on_progress = dkr_import_job_on_progress;
-
-               url = strjoina(PROTOCOL_PREFIX, i->response_registries[0], "/v1/images/", i->id, "/json");
-
               r = import_job_new(&i->json_job, url, i->glue, i);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to allocate json job: %m");
-                       goto finish;
-               }
-
-               r = dkr_import_add_token(i, i->json_job);
-               if (r < 0) {
-                       log_oom();
-                       goto finish;
-               }
-
-               i->json_job->on_finished = dkr_import_job_on_finished;
-               i->json_job->on_progress = dkr_import_job_on_progress;
-
-               r = import_job_begin(i->ancestry_job);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to start ancestry job: %m");
-                       goto finish;
-               }
-
-               r = import_job_begin(i->json_job);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to start json job: %m");
-                       goto finish;
-
        }
-
-       } else if (i->ancestry_job == j) {
-               char **ancestry = NULL, **k;
-               unsigned n;
-
-               assert(!i->layer_job);
-
-               r = parse_ancestry(j->payload, j->payload_size, &ancestry);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to parse JSON id.");
-                       goto finish;
-               }
-
-               n = strv_length(ancestry);
```

```
-               if (n <= 0 || !streq(ancestry[n-1], i->id)) {
-                       log_error("Ancestry doesn't end in main layer.");
-                       strv_free(ancestry);
-                       r = -EBADMSG;
-                       goto finish;
-               }
-
-               log_info("Ancestor lookup succeeded, requires layers:\n");
-               STRV_FOREACH(k, ancestry)
-                       log_info("\t%s", *k);
-
-               strv_free(i->ancestry);
-               i->ancestry = ancestry;
-
        i->n_ancestry = n;
-               i->current_ancestry = 0;
-
-               dkr_import_report_progress(i, DKR_DOWNLOADING);
-
-               r = dkr_import_pull_layer(i);
-               if (r < 0)
-                       goto finish;
-
-       } else if (i->layer_job == j) {
-               assert(i->temp_path);
-               assert(i->final_path);
-
-               j->disk_fd = safe_close(j->disk_fd);
-
-               if (i->tar_pid > 0) {
-                       r = wait_for_terminate_and_warn("tar", i->tar_pid, true);
-                       i->tar_pid = 0;
-                       if (r < 0)
-                               goto finish;
-               }
-
-               r = aufs_resolve(i->temp_path);
-               if (r < 0) {
-                       log_error_errno(r, "Failed to resolve aufs whiteouts: %m");
-                       goto finish;
-               }
-
-               r = btrfs_subvol_set_read_only(i->temp_path, true);
-
      if (r < 0) {
-                       log_error_errno(r, "Failed to mark snapshot read-only: %m");
-                       goto finish;
-               }
```

```
-
-               if (rename(i->temp_path, i->final_path) < 0) {
-                       log_error_errno(errno, "Failed to rename snaphsot: %m");
-                       goto finish;
-               }
-
-               log_info("Completed writing to layer %s.", i->final_path);
-
-               i->layer_job = import_job_unref(i->layer_job);
-               free(i->temp_path);
-               i->temp_path = NULL;
-               free(i->final_path);
-               i->final_path = NULL;
-
-               i->current_ancestry ++;
-               r = dkr_import_pull_layer(i);
-               if (r < 0)
-                       goto finish;
-
-       } else if (i->json_job != j)
-               assert_not_reached("Got finished event for unknown curl object");
-
-       if (!dkr_import_is_done(i))
-               return;
-
-
       dkr_import_report_progress(i, DKR_COPYING);
-
-       r = dkr_import_make_local_copy(i);
-       if (r < 0)
-               goto finish;
-
-       r = 0;
-
-finish:
-       if (i->on_finished)
-               i->on_finished(i, r, i->userdata);
-       else
-               sd_event_exit(i->event, r);
-}
-
-static int dkr_import_job_on_header(ImportJob *j, const char *header, size_t sz)  {
-       _cleanup_free_ char *registry = NULL;
-       char *token;
-       DkrImport *i;
-       int r;
-
-       assert(j);
```

```
-       assert(j->userdata);
-
-       i = j->userdata;
-
-       r = curl_header_strdup(header, sz, HEADER_TOKEN, &token);
-       if (r < 0)
-               return log_oom();
-       if (r > 0) {
-               free(i->response_token);
-               i->response_token = token;
-               return 0;
-       }
-
-       r = curl_header_strdup(header, sz, HEADER_REGISTRY, &registry);
-       if (r < 0)
-               return log_oom();
-
       if (r > 0) {
-               char **l, **k;
-
-               l = strv_split(registry, ",");
-               if (!l)
-                       return log_oom();
-
-               STRV_FOREACH(k, l) {
-                       if (!hostname_is_valid(*k)) {
-                               log_error("Registry hostname is not valid.");
-                               strv_free(l);
-                               return -EBADMSG;
-                       }
-               }
-
-               strv_free(i->response_registries);
-               i->response_registries = l;
-       }
-
-       return 0;
-}
-
-int dkr_import_pull(DkrImport *i, const char *name, const char *tag, const char *local, bool force_local) {
-       const char *url;
-       int r;
-
-       assert(i);
-
-       if (!dkr_name_is_valid(name))
-               return -EINVAL;
-
```

```
-       if (tag && !dkr_tag_is_valid(tag))
-               return -EINVAL;
-
-       if (local && !machine_name_is_valid(local))
-
               return -EINVAL;
-
-       if (i->images_job)
-               return -EBUSY;
-
-       if (!tag)
-               tag = "latest";
-
-       r = free_and_strdup(&i->local, local);
-       if (r < 0)
-               return r;
-       i->force_local = force_local;
-
-       r = free_and_strdup(&i->name, name);
-       if (r < 0)
-               return r;
-       r = free_and_strdup(&i->tag, tag);
-       if (r < 0)
-               return r;
-
-       url = strjoina(i->index_url, "/v1/repositories/", name, "/images");
-
-       r = import_job_new(&i->images_job, url, i->glue, i);
-       if (r < 0)
-               return r;
-
-       r = dkr_import_add_token(i, i->images_job);
-       if (r < 0)
-               return r;
-
-       i->images_job->on_finished = dkr_import_job_on_finished;
-       i->images_job->on_header = dkr_import_job_on_header;
-       i->images_job->on_progress = dkr_import_job_on_progress;
-
-       return import_job_begin(i->images_job);
-}
diff
 --git a/src/import/import-dkr.h b/src/import/import-dkr.h
deleted file mode 100644
index 633c767965..0000000000
--- a/src/import/import-dkr.h
+++ /dev/null
@@ -1,36 +0,0 @@
```

```
-/*-*- Mode: C; c-basic-offset: 8; indent-tabs-mode: nil -*-*/
-
-/***
-  This file is part of systemd.
-
-  Copyright 2014 Lennart Poettering
-
-  systemd is free software; you can redistribute it and/or modify it
-  under the terms of the GNU Lesser General Public License as published by
-  the Free Software Foundation; either version 2.1 of the License, or
-  (at your option) any later version.
-
-  systemd is distributed in the hope that it will be useful, but
-  WITHOUT ANY WARRANTY; without even the implied warranty of
-  MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
-  Lesser General Public License for more details.
-
-  You should have received a copy of the GNU Lesser General Public License
-  along with systemd; If not, see <http://www.gnu.org/licenses/>.
-***/
-
-#pragma
 once
-
-#include "sd-event.h"
-#include "util.h"
-
-typedef struct DkrImport DkrImport;
-
-typedef void (*DkrImportFinished)(DkrImport *import, int error, void *userdata);
-
-int dkr_import_new(DkrImport **import, sd_event *event, const char *index_url, const char *image_root,
DkrImportFinished on_finished, void *userdata);
-DkrImport* dkr_import_unref(DkrImport *import);
-
-DEFINE_TRIVIAL_CLEANUP_FUNC(DkrImport*, dkr_import_unref);
-
-int dkr_import_pull(DkrImport *import, const char *name, const char *tag, const char *local, bool force_local);
diff --git a/src/import/importd.c b/src/import/importd.c
index 1222bf3cd2..9aaf991f83 100644
--- a/src/import/importd.c
+++ b/src/import/importd.c
@@ -38,7 +38,6 @@ typedef struct Manager Manager;
typedef enum TransferType {
        TRANSFER_TAR,
        TRANSFER_RAW,
-       TRANSFER_DKR,
        _TRANSFER_TYPE_MAX,
```

```
        _TRANSFER_TYPE_INVALID = -1,
} TransferType;
@@ -56,8 +55,6 @@ struct Transfer {
        char *local;
         bool force_local;

-        char *dkr_index_url;
-
        pid_t pid;

        int log_fd;
@@ -91,7 +88,6 @@ struct Manager {
static const char* const transfer_type_table[_TRANSFER_TYPE_MAX] = {
        [TRANSFER_TAR] = "tar",
        [TRANSFER_RAW] = "raw",
-        [TRANSFER_DKR] = "dkr",
};

DEFINE_PRIVATE_STRING_TABLE_LOOKUP_TO_STRING(transfer_type, TransferType);
@@ -108,7 +104,6 @@ static Transfer *transfer_unref(Transfer *t) {

        free(t->remote);
        free(t->local);
-        free(t->dkr_index_url);
        free(t->object_path);

        if (t->pid > 0) {
@@ -355,7 +350,6 @@ static int transfer_start(Transfer *t) {
                        "--verify",
                        NULL, /* verify argument */
                        NULL, /* maybe --force */
-                        NULL, /* maybe --dkr-index-url */
                        NULL, /* the actual URL */
                        NULL, /* remote */
                        NULL, /* local
 */
@@ -410,11 +404,6 @@ static int transfer_start(Transfer *t) {
                if (t->force_local)
                        cmd[k++] = "--force";

-                if (t->dkr_index_url) {
-                        cmd[k++] = "--dkr-index-url";
-                        cmd[k++] = t->dkr_index_url;
-                }
-
                cmd[k++] = t->remote;
                if (t->local)
                        cmd[k++] = t->local;
```

```
@@ -624,7 +613,7 @@ static int manager_new(Manager **ret) {
        return 0;
 }

-static Transfer *manager_find(Manager *m, TransferType type, const char *dkr_index_url, const char *remote) {
+static Transfer *manager_find(Manager *m, TransferType type, const char *remote) {
        Transfer *t;
        Iterator i;

@@ -635,8 +624,7 @@ static Transfer *manager_find(Manager *m, TransferType type, const char *dkr_ind
        HASHMAP_FOREACH(t, m->transfers, i) {

                if (t->type == type &&
-                   streq_ptr(t->remote, remote)
- &&
-                   streq_ptr(t->dkr_index_url, dkr_index_url))
+                    streq_ptr(t->remote, remote))
                        return t;
        }

@@ -689,7 +677,7 @@ static int method_pull_tar_or_raw(sd_bus *bus, sd_bus_message *msg, void *userda

        type = streq_ptr(sd_bus_message_get_member(msg), "PullTar") ? TRANSFER_TAR : TRANSFER_RAW;

-       if (manager_find(m, type, NULL, remote))
+       if (manager_find(m, type, remote))
                return sd_bus_error_setf(error, BUS_ERROR_TRANSFER_IN_PROGRESS, "Transfer for %s already in progress.", remote);

        r = transfer_new(m, &t);
@@ -719,98 +707,6 @@ static int method_pull_tar_or_raw(sd_bus *bus, sd_bus_message *msg, void *userda
        return sd_bus_reply_method_return(msg, "uo", id, object);
 }

-static int method_pull_dkr(sd_bus *bus, sd_bus_message *msg, void *userdata, sd_bus_error *error) {
-       _cleanup_(transfer_unrefp) Transfer *t = NULL;
-       const char *index_url, *remote,
- *tag, *local, *verify, *object;
-       Manager *m = userdata;
-       ImportVerify v;
-       int force, r;
-       uint32_t id;
-
-       assert(bus);
-       assert(msg);
-       assert(m);
-
-       r = bus_verify_polkit_async(
```

```
-                       msg,
-                       CAP_SYS_ADMIN,
-                       "org.freedesktop.import1.pull",
-                       false,
-                       &m->polkit_registry,
-                       error);
-       if (r < 0)
-               return r;
-       if (r == 0)
-               return 1; /* Will call us back */
-
-       r = sd_bus_message_read(msg, "sssssb", &index_url, &remote, &tag, &local, &verify, &force);
-       if (r < 0)
-               return r;
-
-       if (isempty(index_url))
-               index_url = DEFAULT_DKR_INDEX_URL;
-       if (!index_url)
-               return sd_bus_error_setf(error, SD_BUS_ERROR_INVALID_ARGS, "Index URL must be specified.");
-       if (!http_url_is_valid(index_url))
-
              return sd_bus_error_setf(error, SD_BUS_ERROR_INVALID_ARGS, "Index URL %s is invalid",
index_url);
-
-       if (!dkr_name_is_valid(remote))
-               return sd_bus_error_setf(error, SD_BUS_ERROR_INVALID_ARGS, "Remote name %s is not valid",
remote);
-
-       if (isempty(tag))
-               tag = "latest";
-       else if (!dkr_tag_is_valid(tag))
-               return sd_bus_error_setf(error, SD_BUS_ERROR_INVALID_ARGS, "Tag %s is not valid", tag);
-
-       if (isempty(local))
-               local = NULL;
-       else if (!machine_name_is_valid(local))
-               return sd_bus_error_setf(error, SD_BUS_ERROR_INVALID_ARGS, "Local name %s is invalid", local);
-
-       if (isempty(verify))
-               v = IMPORT_VERIFY_SIGNATURE;
-       else
-               v = import_verify_from_string(verify);
-       if (v < 0)
-               return sd_bus_error_setf(error, SD_BUS_ERROR_INVALID_ARGS, "Unknown verification mode %s",
 verify);
-
-       if (v != IMPORT_VERIFY_NO)
-               return sd_bus_error_setf(error, SD_BUS_ERROR_NOT_SUPPORTED, "DKR does not support
```

```
verification.");
-
-       if (manager_find(m, TRANSFER_DKR, index_url, remote))
-               return sd_bus_error_setf(error, BUS_ERROR_TRANSFER_IN_PROGRESS, "Transfer for %s already
in progress.", remote);
-
-       r = transfer_new(m, &t);
-       if (r < 0)
-               return r;
-
-       t->type = TRANSFER_DKR;
-       t->verify = v;
-       t->force_local = force;
-
-       t->dkr_index_url = strdup(index_url);
-       if (!t->dkr_index_url)
-               return -ENOMEM;
-
-       t->remote = strjoin(remote, ":", tag, NULL);
-       if (!t->remote)
-               return -ENOMEM;
-
-       t->local = strdup(local);
-       if (!t->local)
-               return -ENOMEM;
-
-       r = transfer_start(t);
-       if (r < 0)
-               return r;
-
-       object = t->object_path;
-       id = t->id;
-
    t = NULL;
-
-       return sd_bus_reply_method_return(msg, "uo", id, object);
-}
-
static int method_list_transfers(sd_bus *bus, sd_bus_message *msg, void *userdata, sd_bus_error *error) {
        _cleanup_bus_message_unref_ sd_bus_message *reply = NULL;
        Manager *m = userdata;
@@ -956,7 +852,6 @@ static const sd_bus_vtable manager_vtable[] = {
        SD_BUS_VTABLE_START(0),
        SD_BUS_METHOD("PullTar", "sssb", "uo", method_pull_tar_or_raw,
SD_BUS_VTABLE_UNPRIVILEGED),
        SD_BUS_METHOD("PullRaw", "sssb", "uo", method_pull_tar_or_raw,
SD_BUS_VTABLE_UNPRIVILEGED),
-       SD_BUS_METHOD("PullDkr", "sssssb", "uo", method_pull_dkr, SD_BUS_VTABLE_UNPRIVILEGED),
```

```
        SD_BUS_METHOD("ListTransfers", NULL, "a(usssdo)", method_list_transfers,
SD_BUS_VTABLE_UNPRIVILEGED),
        SD_BUS_METHOD("CancelTransfer", "u", NULL, method_cancel_transfer,
SD_BUS_VTABLE_UNPRIVILEGED),
        SD_BUS_SIGNAL("TransferNew", "uo", 0),
diff --git a/src/import/org.freedesktop.import1.conf
 b/src/import/org.freedesktop.import1.conf
index ae36af422f..ed2539a03b 100644
--- a/src/import/org.freedesktop.import1.conf
+++ b/src/import/org.freedesktop.import1.conf
@@ -52,10 +52,6 @@
                 send_interface="org.freedesktop.import1.Manager"
                 send_member="PullRaw"/>

-        <allow send_destination="org.freedesktop.import1"
-                send_interface="org.freedesktop.import1.Manager"
-                send_member="PullDkr"/>
-
         <allow send_destination="org.freedesktop.import1"
                 send_interface="org.freedesktop.import1.Transfer"
                 send_member="Cancel"/>
diff --git a/src/import/pull.c b/src/import/pull.c
index ee3ff68036..9cb10880fa 100644
--- a/src/import/pull.c
+++ b/src/import/pull.c
@@ -28,13 +28,11 @@
#include "machine-image.h"
#include "import-tar.h"
#include "import-raw.h"
-#include "import-dkr.h"
#include "import-util.h"

static bool arg_force
 = false;
static const char *arg_image_root = "/var/lib/machines";
static ImportVerify arg_verify = IMPORT_VERIFY_SIGNATURE;
-static const char* arg_dkr_index_url = DEFAULT_DKR_INDEX_URL;

static int interrupt_signal_handler(sd_event_source *s, const struct signalfd_siginfo *si, void *userdata) {
        log_notice("Transfer aborted.");
@@ -214,107 +212,6 @@ static int pull_raw(int argc, char *argv[], void *userdata) {
        return -r;
}

-static void on_dkr_finished(DkrImport *import, int error, void *userdata) {
-        sd_event *event = userdata;
-        assert(import);
-
```

```
-        if (error == 0)
-                log_info("Operation completed successfully.");
-
-        sd_event_exit(event, abs(error));
-}
-
-static int pull_dkr(int argc, char *argv[], void *userdata) {
-        _cleanup_(dkr_import_unrefp) DkrImport *import = NULL;
-        _cleanup_event_unref_ sd_event *event = NULL;
-        const char *name, *tag, *local;
-        int r;
-
-        if (!arg_dkr_index_url)
 {
-                log_error("Please specify an index URL with --dkr-index-url=");
-                return -EINVAL;
-        }
-
-        if (arg_verify != IMPORT_VERIFY_NO) {
-                log_error("Imports from dkr do not support image verification, please pass --verify=no.");
-                return -EINVAL;
-        }
-
-        tag = strchr(argv[1], ':');
-        if (tag) {
-                name = strndupa(argv[1], tag - argv[1]);
-                tag++;
-        } else {
-                name = argv[1];
-                tag = "latest";
-        }
-
-        if (!dkr_name_is_valid(name)) {
-                log_error("Remote name '%s' is not valid.", name);
-                return -EINVAL;
-        }
-
-        if (!dkr_tag_is_valid(tag)) {
-                log_error("Tag name '%s' is not valid.", tag);
-                return -EINVAL;
-        }
-
-        if (argc >= 3)
-                local = argv[2];
-        else {
-                local = strchr(name, '/');
-
```

```
            if (local)
-                   local++;
-            else
-                   local = name;
-       }
-
-       if (isempty(local) || streq(local, "-"))
-            local = NULL;
-
-       if (local) {
-            if (!machine_name_is_valid(local)) {
-                   log_error("Local image name '%s' is not valid.", local);
-                   return -EINVAL;
-            }
-
-            if (!arg_force) {
-                   r = image_find(local, NULL);
-                   if (r < 0)
-                         return log_error_errno(r, "Failed to check whether image '%s' exists: %m", local);
-                   else if (r > 0) {
-                         log_error_errno(EEXIST, "Image '%s' already exists.", local);
-                         return -EEXIST;
-                   }
-            }
-
-            log_info("Pulling '%s' with tag '%s', saving as '%s'.", name, tag,
 local);
-       } else
-            log_info("Pulling '%s' with tag '%s'.", name, tag);
-
-       r = sd_event_default(&event);
-       if (r < 0)
-            return log_error_errno(r, "Failed to allocate event loop: %m");
-
-       assert_se(sigprocmask_many(SIG_BLOCK, SIGTERM, SIGINT, -1) == 0);
-       sd_event_add_signal(event, NULL, SIGTERM, interrupt_signal_handler,  NULL);
-       sd_event_add_signal(event, NULL, SIGINT, interrupt_signal_handler, NULL);
-
-       r = dkr_import_new(&import, event, arg_dkr_index_url, arg_image_root, on_dkr_finished, event);
-       if (r < 0)
-            return log_error_errno(r, "Failed to allocate importer: %m");
-
-       r = dkr_import_pull(import, name, tag, local, arg_force);
-       if (r < 0)
-            return log_error_errno(r, "Failed to pull image: %m");
-
-       r = sd_event_loop(event);
-       if (r < 0)
```

```
-               return log_error_errno(r, "Failed to run event loop: %m");
-
-       log_info("Exiting.");
-
        return -r;
-}

static int help(int argc, char *argv[], void *userdata) {

@@ -326,11 +223,9 @@ static int help(int argc, char *argv[], void *userdata) {
               "     --verify=               Verify downloaded image, one of: 'no',\n"
               "                             'checksum', 'signature'.\n"
               "     --image-root=           Image root directory\n"
-              "     --dkr-index-url=URL     Specify index URL to use for downloads\n\n"
               "Commands:\n"
               "  tar URL [NAME]             Download a TAR image\n"
-              "  raw URL [NAME]             Download a RAW image\n"
-              "  dkr REMOTE [NAME]          Download a DKR image\n",
+              "  raw URL [NAME]             Download a RAW image\n",
               program_invocation_short_name);

        return 0;
@@ -341,7 +236,6 @@ static int parse_argv(int argc, char *argv[]) {
        enum {
                ARG_VERSION
 = 0x100,
                ARG_FORCE,
-               ARG_DKR_INDEX_URL,
                ARG_IMAGE_ROOT,
                ARG_VERIFY,
        };
@@ -350,7 +244,6 @@ static int parse_argv(int argc, char *argv[]) {
               { "help",           no_argument,       NULL, 'h'               },
               { "version",        no_argument,       NULL, ARG_VERSION       },
               { "force",          no_argument,       NULL, ARG_FORCE         },
-              { "dkr-index-url",  required_argument, NULL, ARG_DKR_INDEX_URL  },
               { "image-root",     required_argument, NULL, ARG_IMAGE_ROOT     },
               { "verify",         required_argument, NULL, ARG_VERIFY         },
               {}
@@ -377,15 +270,6 @@ static int parse_argv(int argc, char *argv[]) {
                        arg_force = true;
                        break;

-               case ARG_DKR_INDEX_URL:
-                       if (!http_url_is_valid(optarg)) {
-
                                log_error("Index URL is not valid: %s", optarg);
-                               return -EINVAL;
```

```
-                       }
-
-                       arg_dkr_index_url = optarg;
-                       break;
-
                case ARG_IMAGE_ROOT:
                        arg_image_root = optarg;
                        break;
@@ -415,7 +299,6 @@ static int import_main(int argc, char *argv[]) {
                { "help", VERB_ANY, VERB_ANY, 0, help     },
                { "tar",  2,        3,        0, pull_tar },
                { "raw",  2,        3,        0, pull_raw },
-               { "dkr",  2,        3,        0, pull_dkr },
                {}
        };

diff --git a/src/machine/machinectl.c b/src/machine/machinectl.c
index ef1214a666..cfd3162fb7 100644
--- a/src/machine/machinectl.c
+++ b/src/machine/machinectl.c
@@ -77,7 +77,6 @@ static unsigned arg_lines = 10;
static OutputMode arg_output = OUTPUT_SHORT;
static bool arg_force
 = false;
static ImportVerify arg_verify = IMPORT_VERIFY_SIGNATURE;
-static const char* arg_dkr_index_url = NULL;

static void pager_open_if_enabled(void) {

@@ -1998,78 +1997,6 @@ static int pull_raw(int argc, char *argv[], void *userdata) {
        return pull_image_common(bus, m);
}

-static int pull_dkr(int argc, char *argv[], void *userdata) {
-       _cleanup_bus_message_unref_ sd_bus_message *m = NULL;
-       const char *local, *remote, *tag;
-       sd_bus *bus = userdata;
-       int r;
-
-       if (arg_verify != IMPORT_VERIFY_NO) {
-               log_error("Imports from DKR do not support image verification, please pass --verify=no.");
-               return -EINVAL;
-       }
-
-       remote = argv[1];
-       tag = strchr(remote, ':');
-       if (tag) {
-               remote = strndupa(remote, tag - remote);
```

```
-               tag++;
-       }
-
-       if (!dkr_name_is_valid(remote)) {
-               log_error("DKR name '%s' is invalid.", remote);
-
                return -EINVAL;
-       }
-       if (tag && !dkr_tag_is_valid(tag)) {
-               log_error("DKR tag '%s' is invalid.", remote);
-               return -EINVAL;
-       }
-
-       if (argc >= 3)
-               local = argv[2];
-       else {
-               local = strchr(remote, '/');
-               if (local)
-                       local++;
-               else
-                       local = remote;
-       }
-
-       if (isempty(local) || streq(local, "-"))
-               local = NULL;
-
-       if (local) {
-               if (!machine_name_is_valid(local)) {
-                       log_error("Local name %s is not a suitable machine name.", local);
-                       return -EINVAL;
-               }
-       }
-
-       r = sd_bus_message_new_method_call(
-                       bus,
-                       &m,
-                       "org.freedesktop.import1",
-                       "/org/freedesktop/import1",
-
                "org.freedesktop.import1.Manager",
-                       "PullDkr");
-       if (r < 0)
-               return bus_log_create_error(r);
-
-       r = sd_bus_message_append(
-                       m,
-                       "ssssb",
-                       arg_dkr_index_url,
```

```
-                       remote,
-                       tag,
-                       local,
-                       import_verify_to_string(arg_verify),
-                       arg_force);
-       if (r < 0)
-               return bus_log_create_error(r);
-
-       return pull_image_common(bus, m);
-}
-
typedef struct TransferInfo {
        uint32_t id;
        const char *type;
@@ -2237,8 +2164,6 @@ static int help(int argc, char *argv[], void *userdata) {
               "     --verify=MODE           Verification mode for downloaded images (no,\n"
               "                             checksum, signature)\n"
               "     --force                 Download image
 even if already exists\n"
-              "     --dkr-index-url=URL     Specify the index URL to use for DKR image\n"
-              "                             downloads\n\n"
               "Machine Commands:\n"
               "  list                       List running VMs and containers\n"
               "  status NAME...             Show VM/container details\n"
@@ -2265,7 +2190,6 @@ static int help(int argc, char *argv[], void *userdata) {
               "Image Transfer Commands:\n"
               "  pull-tar URL [NAME]        Download a TAR container image\n"
               "  pull-raw URL [NAME]        Download a RAW container or VM image\n"
-              "  pull-dkr REMOTE [NAME]     Download a DKR container image\n"
               "  list-transfers             Show list of downloads in progress\n"
               "  cancel-transfer            Cancel a download\n"
               , program_invocation_short_name);
@@ -2284,8 +2208,7 @@ static int parse_argv(int
 argc, char *argv[]) {
               ARG_MKDIR,
               ARG_NO_ASK_PASSWORD,
               ARG_VERIFY,
-              ARG_FORCE,
-              ARG_DKR_INDEX_URL,
+              ARG_FORCE
       };

       static const struct option options[] = {
@@ -2308,7 +2231,6 @@ static int parse_argv(int argc, char *argv[]) {
               { "no-ask-password", no_argument,       NULL, ARG_NO_ASK_PASSWORD },
               { "verify",          required_argument, NULL, ARG_VERIFY          },
               { "force",           no_argument,       NULL, ARG_FORCE           },
-              { "dkr-index-url",   required_argument, NULL, ARG_DKR_INDEX_URL   },
```

```
                {}
        };

@@ -2421,15 +2343,6 @@ static int parse_argv(int argc, char *argv[]) {
                        arg_force = true;
                        break;

-               case ARG_DKR_INDEX_URL:
-                       if (!http_url_is_valid(optarg)) {
-
        log_error("Index URL is invalid: %s", optarg);
-                               return -EINVAL;
-                       }
-
-                       arg_dkr_index_url = optarg;
-                       break;
-
                case '?':
                        return -EINVAL;

@@ -2467,7 +2380,6 @@ static int machinectl_main(int argc, char *argv[], sd_bus *bus) {
                { "disable",         2,        VERB_ANY, 0,            enable_machine    },
                { "pull-tar",        2,        3,        0,            pull_tar          },
                { "pull-raw",        2,        3,        0,            pull_raw          },
-               { "pull-dkr",        2,        3,        0,            pull_dkr          },
                { "list-transfers",  VERB_ANY, 1,        0,            list_transfers    },
                { "cancel-transfer", 2,        VERB_ANY, 0,            cancel_transfer   },
                {}
diff --git a/src/shared/import-util.c b/src/shared/import-util.c
index
 660d92ac5d..c0aba30a98 100644
--- a/src/shared/import-util.c
+++ b/src/shared/import-util.c
@@ -149,34 +149,3 @@ int raw_strip_suffixes(const char *p, char **ret) {

        return 0;
}
-
-bool dkr_name_is_valid(const char *name) {
-       const char *slash, *p;
-
-       if (isempty(name))
-               return false;
-
-       slash = strchr(name, '/');
-       if (!slash)
-               return false;
-
```

```
-       if (!filename_is_valid(slash + 1))
-               return false;
-
-       p = strndupa(name, slash - name);
-       if (!filename_is_valid(p))
-               return false;
-
-       return true;
-}
-
-bool dkr_id_is_valid(const char *id) {
-
-       if (!filename_is_valid(id))
-               return false;
-
-       if (!in_charset(id, "0123456789abcdef"))
-               return false;
-
-       return true;
-}
diff --git a/src/shared/import-util.h b/src/shared/import-util.h
index ff155b0ff2..22773c58e9 100644
--- a/src/shared/import-util.h
+++
 b/src/shared/import-util.h
@@ -41,7 +41,3 @@ ImportVerify import_verify_from_string(const char *s) _pure_;

int tar_strip_suffixes(const char *name, char **ret);
int raw_strip_suffixes(const char *name, char **ret);
-
-bool dkr_name_is_valid(const char *name);
-bool dkr_id_is_valid(const char *id);
-#define dkr_tag_is_valid(tag) filename_is_valid(tag)
```

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0324-importd-drop-dkr-support.patch
No license file was found, but licenses were detected in source scan.

From 91cb89c1b79ef3c475d91319edb0c052cb9f2724 Mon Sep 17 00:00:00 2001
From: Lukas Nykryn <lnykryn@redhat.com>
Date: Wed, 15 Apr 2015 13:52:02 +0200
Subject: [PATCH] Revert "journald: allow restarting journald without losing
stream connections"

This reverts commit 13790add4bf648fed816361794d8277a75253410.
---
src/journal/journald-server.c | 26 +--

```
src/journal/journald-stream.c     | 376 ++++--------------------------
src/journal/journald-stream.h     |   3 +-
units/systemd-journald.service.in |   1 -
4 files changed, 61 insertions(+), 345 deletions(-)

diff --git a/src/journal/journald-server.c b/src/journal/journald-server.c
index 7ee8174ea2..04839c950c 100644
--- a/src/journal/journald-server.c
+++ b/src/journal/journald-server.c
@@ -1455,7 +1455,6 @@ static int server_open_hostname(Server *s) {
 }

 int server_init(Server *s) {
-        _cleanup_fdset_free_ FDSet *fds = NULL;
         int n, r, fd;

         assert(s);
@@ -1552,33 +1551,26 @@ int server_init(Server *s) {
                         s->audit_fd = fd;

                 } else {
+                        log_warning("Unknown socket passed as file descriptor %d, ignoring.", fd);

-                        if (!fds) {
-                                fds = fdset_new();
-                                if (!fds)
-                                        return log_oom();
-                        }
+                        /* Let's close the fd, better be safe than
+                           sorry. The fd might reference some resource
+                           that we really want to release if we don't
+                           make use of it. */

-                        r = fdset_put(fds, fd);
-                        if (r < 0)
-                                return log_oom();
+                        safe_close(fd);
                 }
         }

-        r = server_open_stdout_socket(s, fds);
+        r = server_open_syslog_socket(s);
         if (r < 0)
                 return r;

-        if (fdset_size(fds) > 0) {
-                log_warning("%u unknown file descriptors passed, closing.", fdset_size(fds));
-                fds = fdset_free(fds);
```

```
-       }
-
-       r = server_open_syslog_socket(s);
+       r = server_open_native_socket(s);
        if (r < 0)
                return r;

-       r = server_open_native_socket(s);
+       r = server_open_stdout_socket(s);
        if (r < 0)
                return r;

diff --git a/src/journal/journald-stream.c b/src/journal/journald-stream.c
index 942a857803..11b852d39d 100644
--- a/src/journal/journald-stream.c
+++ b/src/journal/journald-stream.c
@@ -28,11 +28,8 @@
#endif

#include "sd-event.h"
-#include "sd-daemon.h"
#include "socket-util.h"
#include "selinux-util.h"
-#include "mkdir.h"
-#include "fileio.h"
#include "journald-server.h"
#include "journald-stream.h"
#include "journald-syslog.h"
@@ -72,153 +69,14 @@ struct StdoutStream
 {
        bool forward_to_kmsg:1;
        bool forward_to_console:1;

-       bool fdstore:1;
-
        char buffer[LINE_MAX+1];
        size_t length;

        sd_event_source *event_source;

-       char *state_file;
-
        LIST_FIELDS(StdoutStream, stdout_stream);
};

-void stdout_stream_free(StdoutStream *s) {
-       if (!s)
-               return;
```

```
-
-       if (s->server) {
-               assert(s->server->n_stdout_streams > 0);
-               s->server->n_stdout_streams --;
-               LIST_REMOVE(stdout_stream, s->server->stdout_streams, s);
-       }
-
-       if (s->event_source) {
-               sd_event_source_set_enabled(s->event_source, SD_EVENT_OFF);
-               s->event_source = sd_event_source_unref(s->event_source);
-       }
-
-       safe_close(s->fd);
-
-#ifdef HAVE_SELINUX
-       if (s->security_context)
-               freecon(s->security_context);
-#endif
-
-       free(s->identifier);
-       free(s->unit_id);
-
       free(s->state_file);
-
-       free(s);
-}
-
-DEFINE_TRIVIAL_CLEANUP_FUNC(StdoutStream*, stdout_stream_free);
-
-static void stdout_stream_destroy(StdoutStream *s) {
-       if (!s)
-               return;
-
-       if (s->state_file)
-               unlink(s->state_file);
-
-       stdout_stream_free(s);
-}
-
-static int stdout_stream_save(StdoutStream *s) {
-       _cleanup_free_ char *temp_path = NULL;
-       _cleanup_fclose_ FILE *f = NULL;
-       int r;
-
-       assert(s);
-
-       if (s->state != STDOUT_STREAM_RUNNING)
-               return 0;
```

```
-
-       if (!s->state_file) {
-               struct stat st;
-
-               r = fstat(s->fd, &st);
-               if (r < 0)
-                       return log_warning_errno(errno, "Failed to stat connected stream: %m");
-
-               /* We use device and inode numbers as identifier for the stream */
-               if (asprintf(&s->state_file, "/run/systemd/journal/streams/%lu:%lu", (unsigned
 long) st.st_dev, (unsigned long) st.st_ino) < 0)
-                       return log_oom();
-       }
-
-       mkdir_p("/run/systemd/journal/streams", 0755);
-
-       r = fopen_temporary(s->state_file, &f, &temp_path);
-       if (r < 0)
-               goto finish;
-
-       fprintf(f,
-               "# This is private data. Do not parse\n"
-               "PRIORITY=%i\n"
-               "LEVEL_PREFIX=%i\n"
-               "FORWARD_TO_SYSLOG=%i\n"
-               "FORWARD_TO_KMSG=%i\n"
-               "FORWARD_TO_CONSOLE=%i\n",
-               s->priority,
-               s->level_prefix,
-               s->forward_to_syslog,
-               s->forward_to_kmsg,
-               s->forward_to_console);
-
-       if (!isempty(s->identifier)) {
-               _cleanup_free_ char *escaped;
-
-               escaped = cescape(s->identifier);
-               if (!escaped) {
-                       r = -ENOMEM;
-                       goto finish;
-
 }
-
-               fprintf(f, "IDENTIFIER=%s\n", escaped);
-       }
-
-       if (!isempty(s->unit_id)) {
-               _cleanup_free_ char *escaped;
```

```
-
-               escaped = cescape(s->unit_id);
-               if (!escaped) {
-                       r = -ENOMEM;
-                       goto finish;
-               }
-
-               fprintf(f, "UNIT=%s\n", escaped);
-       }
-
-       r = fflush_and_check(f);
-       if (r < 0)
-               goto finish;
-
-       if (rename(temp_path, s->state_file) < 0) {
-               r = -errno;
-               goto finish;
-       }
-
-       free(temp_path);
-       temp_path = NULL;
-
-       /* Store the connection fd in PID 1, so that we get it passed
-        * in again on next start */
-       if (!s->fdstore) {
-               sd_pid_notify_with_fds(0, false, "FDSTORE=1", &s->fd, 1);
-               s->fdstore = true;
-       }
-
-finish:
-       if (temp_path)
-               unlink(temp_path);
-
-
      if (r < 0)
-               log_error_errno(r, "Failed to save stream data %s: %m", s->state_file);
-
-       return r;
-}
-
static int stdout_stream_log(StdoutStream *s, const char *p) {
       struct iovec iovec[N_IOVEC_META_FIELDS + 5];
       int priority;
@@ -371,9 +229,6 @@ static int stdout_stream_line(StdoutStream *s, char *p) {

               s->forward_to_console = !!r;
               s->state = STDOUT_STREAM_RUNNING;
-
```

```
-               /* Try to save the stream, so that journald can be restarted and we can recover */
-               (void) stdout_stream_save(s);
                return 0;

        case STDOUT_STREAM_RUNNING:
@@ -468,63 +323,40 @@ static int stdout_stream_process(sd_event_source *es, int fd, uint32_t revents,
        return 1;

terminate:
-       stdout_stream_destroy(s);
+       stdout_stream_free(s);
        return 0;
}

-static int stdout_stream_install(Server *s, int fd, StdoutStream **ret) {
-       _cleanup_(stdout_stream_freep)
 StdoutStream *stream = NULL;
-       int r;
-
+void stdout_stream_free(StdoutStream *s) {
        assert(s);
-       assert(fd >= 0);

-       stream = new0(StdoutStream, 1);
-       if (!stream)
-               return log_oom();
+       if (s->server) {
+               assert(s->server->n_stdout_streams > 0);
+               s->server->n_stdout_streams --;
+               LIST_REMOVE(stdout_stream, s->server->stdout_streams, s);
+       }

-       stream->fd = -1;
-       stream->priority = LOG_INFO;
+       if (s->event_source) {
+               sd_event_source_set_enabled(s->event_source, SD_EVENT_OFF);
+               s->event_source = sd_event_source_unref(s->event_source);
+       }

-       r = getpeercred(fd, &stream->ucred);
-       if (r < 0)
-               return log_error_errno(r, "Failed to determine peer credentials: %m");
+       safe_close(s->fd);

#ifdef HAVE_SELINUX
-       if (mac_selinux_use()) {
-               if (getpeercon(fd,
```

```
 &stream->security_context) < 0 && errno != ENOPROTOOPT)
-                       log_error_errno(errno, "Failed to determine peer security context: %m");
-       }
+       if (s->security_context)
+               freecon(s->security_context);
#endif

-       (void) shutdown(fd, SHUT_WR);
-
-       r = sd_event_add_io(s->event, &stream->event_source, fd, EPOLLIN, stdout_stream_process, stream);
-       if (r < 0)
-               return log_error_errno(r, "Failed to add stream to event loop: %m");
-
-       r = sd_event_source_set_priority(stream->event_source, SD_EVENT_PRIORITY_NORMAL+5);
-       if (r < 0)
-               return log_error_errno(r, "Failed to adjust stdout event source priority: %m");
-
-       stream->fd = fd;
-
-       stream->server = s;
-       LIST_PREPEND(stdout_stream, s->stdout_streams, stream);
-       s->n_stdout_streams ++;
-
-       if (ret)
-               *ret = stream;
-
-       stream = NULL;
-
-       return 0;
+       free(s->identifier);
+
        free(s->unit_id);
+       free(s);
}

static int stdout_stream_new(sd_event_source *es, int listen_fd, uint32_t revents, void *userdata) {
-       _cleanup_close_ int fd = -1;
        Server *s = userdata;
-       int r;
+       StdoutStream *stream;
+       int fd, r;

        assert(s);

@@ -544,163 +376,60 @@ static int stdout_stream_new(sd_event_source *es, int listen_fd, uint32_t revent

        if (s->n_stdout_streams >= STDOUT_STREAMS_MAX) {
                log_warning("Too many stdout streams, refusing connection.");
```

```
+               safe_close(fd);
                return 0;
        }

-       r = stdout_stream_install(s, fd, NULL);
-       if (r < 0)
-               return r;
-
-       fd = -1;
-       return 0;
-}
-
-static int stdout_stream_load(StdoutStream *stream, const char *fname) {
-       _cleanup_free_ char
-               *priority = NULL,
-               *level_prefix = NULL,
-               *forward_to_syslog = NULL,
-
               *forward_to_kmsg = NULL,
-               *forward_to_console = NULL;
-       int r;
-
-       assert(stream);
-       assert(fname);
-
-       if (!stream->state_file) {
-               stream->state_file = strappend("/run/systemd/journal/streams/", fname);
-               if (!stream->state_file)
-                       return log_oom();
-       }
-
-       r = parse_env_file(stream->state_file, NEWLINE,
-                          "PRIORITY", &priority,
-                          "LEVEL_PREFIX", &level_prefix,
-                          "FORWARD_TO_SYSLOG", &forward_to_syslog,
-                          "FORWARD_TO_KMSG", &forward_to_kmsg,
-                          "FORWARD_TO_CONSOLE", &forward_to_console,
-                          "IDENTIFIER", &stream->identifier,
-                          "UNIT", &stream->unit_id,
-                          NULL);
-       if (r < 0)
-               return log_error_errno(r, "Failed to read: %s", stream->state_file);
-
-
       if (priority) {
-               int p;
-
-               p = log_level_from_string(priority);
```

```
-               if (p >= 0)
-                       stream->priority = p;
+       stream = new0(StdoutStream, 1);
+       if (!stream) {
+               safe_close(fd);
+               return log_oom();
        }

-       if (level_prefix) {
-               r = parse_boolean(level_prefix);
-               if (r >= 0)
-                       stream->level_prefix = r;
-       }
+       stream->fd = fd;

-       if (forward_to_syslog) {
-               r = parse_boolean(forward_to_syslog);
-               if (r >= 0)
-                       stream->forward_to_syslog = r;
+       r = getpeercred(fd, &stream->ucred);
+       if (r < 0) {
+               log_error_errno(errno, "Failed to determine peer credentials: %m");
+               goto fail;
        }

-       if (forward_to_kmsg) {
-               r = parse_boolean(forward_to_kmsg);
-
      if (r >= 0)
-                       stream->forward_to_kmsg = r;
+#ifdef HAVE_SELINUX
+       if (mac_selinux_use()) {
+               if (getpeercon(fd, &stream->security_context) < 0 && errno != ENOPROTOOPT)
+                       log_error_errno(errno, "Failed to determine peer security context: %m");
        }
+#endif

-       if (forward_to_console) {
-               r = parse_boolean(forward_to_console);
-               if (r >= 0)
-                       stream->forward_to_console = r;
+       if (shutdown(fd, SHUT_WR) < 0) {
+               log_error_errno(errno, "Failed to shutdown writing side of socket: %m");
+               goto fail;
        }

-       return 0;
-}
```

```
-
-static int stdout_stream_restore(Server *s, const char *fname, int fd) {
-       StdoutStream *stream;
-       int r;
-
-       assert(s);
-       assert(fname);
-       assert(fd >= 0);
-
-       if (s->n_stdout_streams >= STDOUT_STREAMS_MAX) {
-               log_warning("Too many
 stdout streams, refusing restoring of stream.");
-               return -ENOBUFS;
+       r = sd_event_add_io(s->event, &stream->event_source, fd, EPOLLIN, stdout_stream_process, stream);
+       if (r < 0) {
+               log_error_errno(r, "Failed to add stream to event loop: %m");
+               goto fail;
        }

-       r = stdout_stream_install(s, fd, &stream);
-       if (r < 0)
-               return r;
-
-       stream->state = STDOUT_STREAM_RUNNING;
-       stream->fdstore = true;
-
-       /* Ignore all parsing errors */
-       (void) stdout_stream_load(stream, fname);
-
-       return 0;
-}
-
-static int server_restore_streams(Server *s, FDSet *fds) {
-       _cleanup_closedir_ DIR *d = NULL;
-       struct dirent *de;
-       int r;
-
-       d = opendir("/run/systemd/journal/streams");
-       if (!d) {
-               if (errno == ENOENT)
-                       return 0;
-
-               return log_warning_errno(errno, "Failed to enumerate
 /run/systemd/journal/streams: %m");
+       r = sd_event_source_set_priority(stream->event_source, SD_EVENT_PRIORITY_NORMAL+5);
+       if (r < 0) {
+               log_error_errno(r, "Failed to adjust stdout event source priority: %m");
+               goto fail;
```

```
        }

-       FOREACH_DIRENT(de, d, goto fail) {
-               unsigned long st_dev, st_ino;
-               bool found = false;
-               Iterator i;
-               int fd;
-
-               if (sscanf(de->d_name, "%lu:%lu", &st_dev, &st_ino) != 2)
-                       continue;
-
-               FDSET_FOREACH(fd, fds, i) {
-                       struct stat st;
-
-                       if (fstat(fd, &st) < 0)
-                               return log_error_errno(errno, "Failed to stat %s: %m", de->d_name);
-
-                       if (S_ISSOCK(st.st_mode) && st.st_dev == st_dev && st.st_ino == st_ino) {
-                               found = true;
-
  break;
-                       }
-               }
-
-               if (!found) {
-                       /* No file descriptor? Then let's delete the state file */
-                       log_debug("Cannot restore stream file %s", de->d_name);
-                       unlinkat(dirfd(d), de->d_name, 0);
-                       continue;
-               }
-
-               fdset_remove(fds, fd);
-
-               r = stdout_stream_restore(s, de->d_name, fd);
-               if (r < 0)
-                       safe_close(fd);
-       }
+       stream->server = s;
+       LIST_PREPEND(stdout_stream, s->stdout_streams, stream);
+       s->n_stdout_streams ++;

        return 0;

fail:
-       return log_error_errno(errno, "Failed to read streams directory: %m");
+       stdout_stream_free(stream);
+       return 0;
}
```

```
-int server_open_stdout_socket(Server *s, FDSet *fds) {
+int server_open_stdout_socket(Server *s) {
        int r;

        assert(s);
@@ -736,8
 +465,5 @@ int server_open_stdout_socket(Server *s, FDSet *fds) {
        if (r < 0)
                return log_error_errno(r, "Failed to adjust priority of stdout server event source: %m");

-        /* Try to restore streams, but don't bother if this fails */
-        (void) server_restore_streams(s, fds);
-
        return 0;
}
diff --git a/src/journal/journald-stream.h b/src/journal/journald-stream.h
index 94bf955d78..8cad012967 100644
--- a/src/journal/journald-stream.h
+++ b/src/journal/journald-stream.h
@@ -21,9 +21,8 @@
  along with systemd; If not, see <http://www.gnu.org/licenses/>.
***/

-#include "fdset.h"
#include "journald-server.h"

-int server_open_stdout_socket(Server *s, FDSet *fds);
+int server_open_stdout_socket(Server *s);

void stdout_stream_free(StdoutStream *s);
diff --git a/units/systemd-journald.service.in b/units/systemd-journald.service.in
index a3540c65d2..87704bb9c1 100644
--- a/units/systemd-journald.service.in
+++ b/units/systemd-journald.service.in
@@
 -23,7 +23,6 @@ NotifyAccess=all
StandardOutput=null
CapabilityBoundingSet=CAP_SYS_ADMIN CAP_DAC_OVERRIDE CAP_SYS_PTRACE CAP_SYSLOG
CAP_AUDIT_CONTROL CAP_AUDIT_READ CAP_CHOWN CAP_DAC_READ_SEARCH CAP_FOWNER
CAP_SETUID CAP_SETGID CAP_MAC_OVERRIDE
WatchdogSec=1min
-FileDescriptorStoreMax=1024

# Increase the default a bit in order to allow many simultaneous
# services being run since we keep one fd open per service. Also, when
```

Found in path(s):

* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0125-Revert-journald-allow-restarting-journald-without-lo.patch
No license file was found, but licenses were detected in source scan.

From 66d069acb953ed8f2bfc6d76561d594520b5c67b Mon Sep 17 00:00:00 2001
From: =?UTF-8?q?Zbigniew=20J=C4=99drzejewski-Szmek?= <zbyszek@in.waw.pl>
Date: Thu, 26 Feb 2015 19:05:51 -0500
Subject: [PATCH] sysctl: add some hints how to override settings

Also a link to decent documentation for sysrq keys. It is surprising
hard to find.

https://lists.fedoraproject.org/pipermail/devel/2015-February/208412.html
(cherry picked from commit 16b65d7f463e91f6299dfa7b83d4b5fbeb109d1c)
---
sysctl.d/50-default.conf | 9 ++++++++-
1 file changed, 8 insertions(+), 1 deletion(-)

diff --git a/sysctl.d/50-default.conf b/sysctl.d/50-default.conf
index f18923399b..def151bb84 100644
--- a/sysctl.d/50-default.conf
+++ b/sysctl.d/50-default.conf
@@ -5,9 +5,16 @@
# the Free Software Foundation; either version 2.1 of the License, or
# (at your option) any later version.

-# See sysctl.d(5) and core(5) for for details.
+# See sysctl.d(5) and
+ core(5) for for documentation.
+
+# To override settings in this file, create a local file in /etc
+# (e.g. /etc/sysctl.d/90-override.conf), and put any assignments
+# there.

System Request functionality of the kernel (SYNC)
+#
+# Use kernel.sysrq = 1 to allow all keys.
+# See http://fedoraproject.org/wiki/QA/Sysrq for a list of values and keys.
kernel.sysrq = 16

Append the PID to the core filename

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0032-sysctl-add-some-hints-how-to-override-settings.patch
No license file was found, but licenses were detected in source scan.

From b72201257216f687bf3462ad7539612cccbbce75 Mon Sep 17 00:00:00 2001

From: =?UTF-8?q?Zbigniew=20J=C4=99drzejewski-Szmek?= <zbyszek@in.waw.pl>
Date: Tue, 3 Mar 2015 19:10:21 -0500
Subject: [PATCH] Do not advertise .d snippets over main config file

For daemons which have a main configuration file, there's
little reason for the administrator to use configuration snippets.
They are useful for packagers which need to override settings, but
we shouldn't advertise that as the main way of configuring those
services.

https://bugs.freedesktop.org/show_bug.cgi?id=89397
(cherry picked from commit e93549ef29c4123d9ee45acb5815048390201e49)
---
man/bootchart.conf.xml | 3 +--
man/coredump.conf.xml | 3 +--
man/journald.conf.xml | 3 +--
man/logind.conf.xml | 8 ++++---
man/resolved.conf.xml | 3 +--
man/standard-conf.xml | 42 ++++++++++++++++++++++++++++++-------
man/systemd-sleep.conf.xml
| 3 +--
man/systemd-system.conf.xml | 3 +--
man/timesyncd.conf.xml | 3 +--
src/bootchart/bootchart.conf | 7 +++---
src/core/system.conf | 7 +++---
src/journal/coredump.conf | 7 +++---
src/journal/journald.conf | 7 +++---
src/login/logind.conf | 7 +++---
src/resolve/resolved.conf.in | 5 ++--
src/timesync/timesyncd.conf.in | 7 +++---
16 files changed, 73 insertions(+), 45 deletions(-)

diff --git a/man/bootchart.conf.xml b/man/bootchart.conf.xml
index 8d9700d300..bf6ca0bf9e 100644
--- a/man/bootchart.conf.xml
+++ b/man/bootchart.conf.xml
@@ -68,8 +68,7 @@
parameters and graph output.</para>
</refsect1>

- <xi:include href="standard-conf.xml" xpointer="confd" />
- <xi:include href="standard-conf.xml" xpointer="conf" />
+ <xi:include href="standard-conf.xml" xpointer="main-conf" />

<refsect1>
<title>Options</title>
diff --git a/man/coredump.conf.xml b/man/coredump.conf.xml
index 3d325e6ad7..0b7329bf55

```
 100644
--- a/man/coredump.conf.xml
+++ b/man/coredump.conf.xml
@@ -63,8 +63,7 @@
    a handler for core dumps invoked by the kernel.</para>
  </refsect1>

-  <xi:include href="standard-conf.xml" xpointer="confd" />
-  <xi:include href="standard-conf.xml" xpointer="conf" />
+  <xi:include href="standard-conf.xml" xpointer="main-conf" />

  <refsect1>
    <title>Options</title>
diff --git a/man/journald.conf.xml b/man/journald.conf.xml
index 364b58f07e..85146b0d82 100644
--- a/man/journald.conf.xml
+++ b/man/journald.conf.xml
@@ -64,8 +64,7 @@

  </refsect1>

-  <xi:include href="standard-conf.xml" xpointer="confd" />
-  <xi:include href="standard-conf.xml" xpointer="conf" />
+  <xi:include href="standard-conf.xml" xpointer="main-conf" />

  <refsect1>
    <title>Options</title>
diff --git a/man/logind.conf.xml b/man/logind.conf.xml
index ffaec50351..ca2b18783c 100644
--- a/man/logind.conf.xml
+++ b/man/logind.conf.xml
@@ -58,11 +58,13 @@
  <refsect1>
    <title>Description</title>

-    <para>These files configure various parameters of the systemd login manager,
<citerefentry><refentrytitle>systemd-
logind.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>.</para>
+    <para>These files configure various parameters of the systemd
+    login manager,
+    <citerefentry><refentrytitle>systemd-
logind.service</refentrytitle><manvolnum>8</manvolnum></citerefentry>.
+    </para>
  </refsect1>

-  <xi:include href="standard-conf.xml" xpointer="confd" />
-  <xi:include href="standard-conf.xml" xpointer="conf" />
+  <xi:include href="standard-conf.xml" xpointer="main-conf" />
```

```
  <refsect1>
    <title>Options</title>
diff --git a/man/resolved.conf.xml b/man/resolved.conf.xml
index 36cae2706c..8047a4ea75 100644
--- a/man/resolved.conf.xml
+++ b/man/resolved.conf.xml
@@ -63,8 +63,7 @@

  </refsect1>

-  <xi:include href="standard-conf.xml" xpointer="confd" />
-  <xi:include href="standard-conf.xml" xpointer="conf" />
+  <xi:include
 href="standard-conf.xml" xpointer="main-conf" />

  <refsect1>
    <title>Options</title>
diff --git a/man/standard-conf.xml b/man/standard-conf.xml
index b87d7e955b..36af45927d 100644
--- a/man/standard-conf.xml
+++ b/man/standard-conf.xml
@@ -33,13 +33,39 @@
    configuration file.</para>
  </refsection>

-  <refsection id='conf'>
-    <title>Configuration File</title>
-
-    <para>Configuration is also read from a single configuration file in
-    <filename>/etc/</filename>. This file is read before any of the
-    configuration directories, and has the lowest precedence; entries in a file
-    in any configuration directory override entries in the single configuration
-    file.</para>
+  <refsection id='main-conf'>
+    <title>Configuration Directories and Precedence</title>
+
+    <para>Default configuration is defined during compilation, so a
+    configuration file is only needed when it is necessary to deviate
+    from those defaults. By default the configuration
 file in
+    <filename>/etc/systemd/</filename> contains commented out entries
+    showing the defaults as a guide to the administrator. This file
+    can be edited to create local overrides.
+    </para>
+
+    <para>When packages need to customize the configuration, they can
+    install configuration snippets in
```

```
+    <filename>/usr/lib/systemd/*.conf.d/</filename>. Files in
+    <filename>/etc/</filename> are reserved for the local
+    administrator, who may use this logic to override the
+    configuration files installed by vendor packages. The main
+    configuration file is read before any of the configuration
+    directories, and has the lowest precedence; entries in a file in
+    any configuration directory override entries in the single
+    configuration file. Files in the
+    <filename>logind.conf.d/</filename> configuration subdirectories
+    are sorted by their filename in lexicographic order, regardless of
+    which of the subdirectories they reside in. If multiple
 files
+    specify the same option, the entry in the file with the
+    lexicographically latest name takes precedence.  It is recommended
+    to prefix all filenames in those subdirectories with a two-digit
+    number and a dash, to simplify the ordering of the files.</para>
+
+    <para>To disable a configuration file supplied by the vendor, the
+    recommended way is to place a symlink to
+    <filename>/dev/null</filename> in the configuration directory in
+    <filename>/etc/</filename>, with the same filename as the vendor
+    configuration file.</para>
  </refsection>
</refsection>
diff --git a/man/systemd-sleep.conf.xml b/man/systemd-sleep.conf.xml
index 433f2f83a0..bb17ec8669 100644
--- a/man/systemd-sleep.conf.xml
+++ b/man/systemd-sleep.conf.xml
@@ -112,8 +112,7 @@ along with systemd; If not, see <http://www.gnu.org/licenses/>.
    attempts to suspend or hibernate the machine.</para>
  </refsect1>

-  <xi:include href="standard-conf.xml" xpointer="confd" />
-
  <xi:include href="standard-conf.xml" xpointer="conf" />
+  <xi:include href="standard-conf.xml" xpointer="main-conf" />

  <refsect1>
    <title>Options</title>
diff --git a/man/systemd-system.conf.xml b/man/systemd-system.conf.xml
index 7c3f237567..c7bcfaee4d 100644
--- a/man/systemd-system.conf.xml
+++ b/man/systemd-system.conf.xml
@@ -74,8 +74,7 @@
    operations.</para>
  </refsect1>

-  <xi:include href="standard-conf.xml" xpointer="confd" />
```

```
-  <xi:include href="standard-conf.xml" xpointer="conf" />
+  <xi:include href="standard-conf.xml" xpointer="main-conf" />

  <refsect1>
    <title>Options</title>
diff --git a/man/timesyncd.conf.xml b/man/timesyncd.conf.xml
index 1127970a18..89a651c662 100644
--- a/man/timesyncd.conf.xml
+++ b/man/timesyncd.conf.xml
@@ -63,8 +63,7 @@

  </refsect1>

-  <xi:include href="standard-conf.xml" xpointer="confd" />
-  <xi:include href="standard-conf.xml" xpointer="conf" />
+  <xi:include href="standard-conf.xml" xpointer="main-conf" />

  <refsect1>
    <title>Options</title>
diff --git a/src/bootchart/bootchart.conf b/src/bootchart/bootchart.conf
index 2d7cb61217..4f5e50936e 100644
--- a/src/bootchart/bootchart.conf
+++ b/src/bootchart/bootchart.conf
@@ -5,10 +5,11 @@
#  the Free Software Foundation; either version 2.1 of the License, or
#  (at your option) any later version.
#
-# You can override the directives in this file by creating files in
-# /etc/systemd/bootchart.conf.d/*.conf.
+# Entries in this file show the compile time defaults.
+# You can change settings by editing this file.
+# Defaults can be restored by simply deleting this file.
#
-# See bootchart.conf(5) for details
+# See bootchart.conf(5) for details.

[Bootchart]
#Samples=500
diff --git a/src/core/system.conf b/src/core/system.conf
index a3727200df..231609033b 100644
--- a/src/core/system.conf
+++ b/src/core/system.conf
@@ -5,10 +5,11 @@
#  the Free Software Foundation; either version 2.1 of the License, or
#  (at your option) any later
 version.
#
-# You can override the directives in this file by creating files in
```

```
-# /etc/systemd/system.conf.d/*.conf.
+# Entries in this file show the compile time defaults.
+# You can change settings by editing this file.
+# Defaults can be restored by simply deleting this file.
#
-# See systemd-system.conf(5) for details
+# See systemd-system.conf(5) for details.

[Manager]
#LogLevel=info
diff --git a/src/journal/coredump.conf b/src/journal/coredump.conf
index 0fe9fe801a..c2f0643e03 100644
--- a/src/journal/coredump.conf
+++ b/src/journal/coredump.conf
@@ -5,10 +5,11 @@
#  the Free Software Foundation; either version 2.1 of the License, or
#  (at your option) any later version.
#
-# You can override the directives in this file by creating files in
-# /etc/systemd/coredump.conf.d/*.conf.
+# Entries in this file show the compile time defaults.
+# You can change settings by editing this file.
+# Defaults can be restored by simply deleting this file.
#
-# See coredump.conf(5)
+# See coredump.conf(5)
 for details
+# See coredump.conf(5) for details.

[Coredump]
#Storage=external
diff --git a/src/journal/journald.conf b/src/journal/journald.conf
index 29bdf8f183..47eefe91c1 100644
--- a/src/journal/journald.conf
+++ b/src/journal/journald.conf
@@ -5,10 +5,11 @@
#  the Free Software Foundation; either version 2.1 of the License, or
#  (at your option) any later version.
#
-# You can override the directives in this file by creating files in
-# /etc/systemd/journald.conf.d/*.conf.
+# Entries in this file show the compile time defaults.
+# You can change settings by editing this file.
+# Defaults can be restored by simply deleting this file.
#
-# See journald.conf(5) for details
+# See journald.conf(5) for details.

[Journal]
```

```
#Storage=auto
diff --git a/src/login/logind.conf b/src/login/logind.conf
index 6b1943a2d1..834c4c2ebf 100644
--- a/src/login/logind.conf
+++ b/src/login/logind.conf
@@ -5,10 +5,11 @@
#  the Free Software Foundation; either version 2.1 of the License, or
 #  (at your option) any later version.
#
-# You can override the directives in this file by creating files in
-# /etc/systemd/logind.conf.d/*.conf.
+# Entries in this file show the compile time defaults.
+# You can change settings by editing this file.
+# Defaults can be restored by simply deleting this file.
#
-# See logind.conf(5) for details
+# See logind.conf(5) for details.

[Login]
#NAutoVTs=6
diff --git a/src/resolve/resolved.conf.in b/src/resolve/resolved.conf.in
index e5a19ee474..3eb19e42b7 100644
--- a/src/resolve/resolved.conf.in
+++ b/src/resolve/resolved.conf.in
@@ -5,8 +5,9 @@
#  the Free Software Foundation; either version 2.1 of the License, or
#  (at your option) any later version.
#
-# You can override the directives in this file by creating files in
-# /etc/systemd/resolved.conf.d/*.conf.
+# Entries in this file show the compile time defaults.
+# You can change settings by editing this file.
+# Defaults can be restored by simply deleting this file.
#
# See
 resolved.conf(5) for details

diff --git a/src/timesync/timesyncd.conf.in b/src/timesync/timesyncd.conf.in
index fc3c6c49cf..b6a2ada273 100644
--- a/src/timesync/timesyncd.conf.in
+++ b/src/timesync/timesyncd.conf.in
@@ -5,10 +5,11 @@
#  the Free Software Foundation; either version 2.1 of the License, or
#  (at your option) any later version.
#
-# You can override the directives in this file by creating files in
-# /etc/systemd/timesyncd.conf.d/*.conf.
+# Entries in this file show the compile time defaults.
```

+# You can change settings by editing this file.
+# Defaults can be restored by simply deleting this file.
#
-# See timesyncd.conf(5) for details
+# See timesyncd.conf(5) for details.

[Time]
#NTP=

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0067-Do-not-advertise-.d-snippets-over-main-config-file.patch
No license file was found, but licenses were detected in source scan.

From 5e6503d0d2efb5cbff945df42423640ffb138073 Mon Sep 17 00:00:00 2001
From: Jan Engelhardt <jengelh@inai.de>
Date: Tue, 24 Feb 2015 17:49:02 +0100
Subject: [PATCH] vconsole: match on vtcon events, not fbcon ones

I observe that upon loading of framebuffer drivers, I do not get the
desired system font, but the kernel-level defaults (usually
lib/fonts/font_8x16.c, but your mileage may vary depending on kernel
config and boot options).

The fbcon driver may be loaded at a time way before the first
framebuffer device is active, such that the vconsole setup helper
runs too early.

The existing rule is non-fitting. The going live of the fbcon kernel
component does not indicate the proper time at which to load the
visuals, which really ought to be done when a new vtcon object comes
into existence. (The font table is a per-vtcon property.)

(cherry picked from commit a52750d1483ff139df33149afc0b675531e9cd79)
---
src/vconsole/90-vconsole.rules.in
| 7 +++----
1 file changed, 3 insertions(+), 4 deletions(-)

diff --git a/src/vconsole/90-vconsole.rules.in b/src/vconsole/90-vconsole.rules.in
index 062009640c..35b9ad5151 100644
--- a/src/vconsole/90-vconsole.rules.in
+++ b/src/vconsole/90-vconsole.rules.in
@@ -5,7 +5,6 @@
# the Free Software Foundation; either version 2.1 of the License, or
# (at your option) any later version.

-# Kernel resets vconsole state when changing console drivers so run

-# systemd-vconsole-setup when fbcon loads
-
-ACTION=="add", SUBSYSTEM=="graphics", KERNEL=="fbcon", RUN+="@rootlibexecdir@/systemd-vconsole-setup"
+# Each vtcon keeps its own state of fonts.
+#
+ACTION=="add", SUBSYSTEM=="vtconsole", KERNEL=="vtcon*", RUN+="@rootlibexecdir@/systemd-vconsole-setup"

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0078-vconsole-match-on-vtcon-events-not-fbcon-ones.patch
No license file was found, but licenses were detected in source scan.

From 4a1723115afea68db4cbe4f7f2d97c4f5663403d Mon Sep 17 00:00:00 2001
From: Lukas Nykryn <lnykryn@redhat.com>
Date: Thu, 6 Aug 2015 11:30:19 +0200
Subject: [PATCH] Revert "journald: move /dev/log socket to /run"

This reverts commit 03ee5c38cb0da193dd08733fb4c0c2809cee6a99.

rhel-only

Resolves: #1249968

Makefile-man.am | 5 -----
Makefile.am | 7 ++----
man/systemd-journald.service.xml | 2 --
src/core/namespace.c | 3 ++-
src/journal/journald-server.c | 3 +--
src/journal/journald-syslog.c | 2 +-
units/systemd-journald-dev-log.socket | 32 ----------------------------
units/systemd-journald.service.in | 4 ++--
units/systemd-journald.socket | 2 +-
9 files changed, 9 insertions(+), 51 deletions(-)
delete mode 100644 units/systemd-journald-dev-log.socket

diff --git a/Makefile-man.am b/Makefile-man.am
index
 084df754a2..497be6612c 100644
--- a/Makefile-man.am
+++ b/Makefile-man.am
@@ -214,7 +214,6 @@ MANPAGES_ALIAS += \
 man/systemd-hybrid-sleep.service.8 \
 man/systemd-initctl.8 \
 man/systemd-initctl.socket.8 \
- man/systemd-journald-dev-log.socket.8 \
 man/systemd-journald.8 \

```
 man/systemd-journald.socket.8 \
 man/systemd-kexec.service.8 \
@@ -326,7 +325,6 @@ man/systemd-hibernate.service.8: man/systemd-suspend.service.8
man/systemd-hybrid-sleep.service.8: man/systemd-suspend.service.8
man/systemd-initctl.8: man/systemd-initctl.service.8
man/systemd-initctl.socket.8: man/systemd-initctl.service.8
-man/systemd-journald-dev-log.socket.8: man/systemd-journald.service.8
man/systemd-journald.8: man/systemd-journald.service.8
man/systemd-journald.socket.8: man/systemd-journald.service.8
man/systemd-kexec.service.8: man/systemd-halt.service.8
@@ -616,9 +614,6 @@ man/systemd-initctl.html: man/systemd-initctl.service.html
man/systemd-initctl.socket.html: man/systemd-initctl.service.html
  $(html-alias)

-man/systemd-journald-dev-log.socket.html: man/systemd-journald.service.html
- $(html-alias)
-
man/systemd-journald.html: man/systemd-journald.service.html
 $(html-alias)

diff --git a/Makefile.am b/Makefile.am
index a81d3c131e..58bcc2c429 100644
--- a/Makefile.am
+++ b/Makefile.am
@@ -4518,8 +4518,7 @@ bin_PROGRAMS += \
 systemd-cat

dist_systemunit_DATA += \
- units/systemd-journald.socket \
- units/systemd-journald-dev-log.socket
+ units/systemd-journald.socket

nodist_systemunit_DATA += \
 units/systemd-journald.service \
@@ -4538,9 +4537,7 @@ dist_catalog_DATA = \
 catalog/systemd.catalog

SOCKETS_TARGET_WANTS += \
- systemd-journald.socket \
- systemd-journald-dev-log.socket
-
+ systemd-journald.socket
SYSINIT_TARGET_WANTS += \
 systemd-journald.service \
 systemd-journal-flush.service \
diff --git a/man/systemd-journald.service.xml b/man/systemd-journald.service.xml
index 8280d6c874..fe99ce9bc6 100644
--- a/man/systemd-journald.service.xml
```

```
+++
 b/man/systemd-journald.service.xml
@@ -45,7 +45,6 @@
  <refnamediv>
    <refname>systemd-journald.service</refname>
    <refname>systemd-journald.socket</refname>
-    <refname>systemd-journald-dev-log.socket</refname>
    <refname>systemd-journald</refname>
    <refpurpose>Journal service</refpurpose>
  </refnamediv>
@@ -53,7 +52,6 @@
  <refsynopsisdiv>
    <para><filename>systemd-journald.service</filename></para>
    <para><filename>systemd-journald.socket</filename></para>
-    <para><filename>systemd-journald-dev-log.socket</filename></para>
    <para><filename>/usr/lib/systemd/systemd-journald</filename></para>
  </refsynopsisdiv>

diff --git a/src/core/namespace.c b/src/core/namespace.c
index d4f1c86211..ebd5fb3347 100644
--- a/src/core/namespace.c
+++ b/src/core/namespace.c
@@ -187,7 +187,8 @@ static int mount_dev(BindMount *m) {
        mount("/dev/hugepages", devhugepages, NULL, MS_BIND, NULL);

        devlog = strjoina(temporary_mount, "/dev/log");
-
-       symlink("/run/systemd/journal/dev-log", devlog);
+       (void)touch(devlog);
+       mount("/dev/log", devlog, NULL, MS_BIND, NULL);

        NULSTR_FOREACH(d, devnodes) {
                _cleanup_free_ char *dn = NULL;
diff --git a/src/journal/journald-server.c b/src/journal/journald-server.c
index d692c06ef7..fb7aae3096 100644
--- a/src/journal/journald-server.c
+++ b/src/journal/journald-server.c
@@ -1531,8 +1531,7 @@ int server_init(Server *s) {

                        s->stdout_fd = fd;

-               } else if (sd_is_socket_unix(fd, SOCK_DGRAM, -1, "/dev/log", 0) > 0 ||
-                          sd_is_socket_unix(fd, SOCK_DGRAM, -1, "/run/systemd/journal/dev-log", 0) > 0) {
+               } else if (sd_is_socket_unix(fd, SOCK_DGRAM, -1, "/dev/log", 0) > 0) {

                        if (s->syslog_fd >= 0) {
                                log_error("Too many /dev/log sockets passed.");
diff --git a/src/journal/journald-syslog.c b/src/journal/journald-syslog.c
```

```
index
 ba80941d7b..4e118aabc0 100644
--- a/src/journal/journald-syslog.c
+++ b/src/journal/journald-syslog.c
@@ -384,7 +384,7 @@ int server_open_syslog_socket(Server *s) {
        if (s->syslog_fd < 0) {
                static const union sockaddr_union sa = {
                        .un.sun_family = AF_UNIX,
-                       .un.sun_path = "/run/systemd/journal/dev-log",
+                       .un.sun_path = "/dev/log",
                };

                s->syslog_fd = socket(AF_UNIX, SOCK_DGRAM|SOCK_CLOEXEC|SOCK_NONBLOCK, 0);
diff --git a/units/systemd-journald-dev-log.socket b/units/systemd-journald-dev-log.socket
deleted file mode 100644
index ffd44bb507..0000000000
--- a/units/systemd-journald-dev-log.socket
+++ /dev/null
@@ -1,32 +0,0 @@
-#  This file is part of systemd.
-#
-#  systemd is free software; you can redistribute it and/or modify it
-#  under the terms of the GNU Lesser General Public License as published by
-#  the Free Software Foundation; either
 version 2.1 of the License, or
-#  (at your option) any later version.
-
-[Unit]
-Description=Journal Socket (/dev/log)
-Documentation=man:systemd-journald.service(8) man:journald.conf(5)
-DefaultDependencies=no
-Before=sockets.target
-
-# Mount and swap units need this. If this socket unit is removed by an
-# isolate request the mount and swap units would be removed too,
-# hence let's exclude this from isolate requests.
-IgnoreOnIsolate=yes
-
-[Socket]
-Service=systemd-journald.service
-ListenDatagram=/run/systemd/journal/dev-log
-Symlinks=/dev/log
-SocketMode=0666
-PassCredentials=yes
-PassSecurity=yes
-
-# Increase both the send and receive buffer, so that things don't
-# block early. Note that journald internally uses the this socket both
```

```
-# for receiving syslog messages, and for forwarding them to any other
-# syslog, hence we bump both values.
-ReceiveBuffer=8M
-SendBuffer=8M
diff --git a/units/systemd-journald.service.in b/units/systemd-journald.service.in
index 1bcc290ec4..9d44622837
 100644
--- a/units/systemd-journald.service.in
+++ b/units/systemd-journald.service.in
@@ -10,12 +10,12 @@ Description=Journal Service
Documentation=man:systemd-journald.service(8) man:journald.conf(5)
DefaultDependencies=no
Requires=systemd-journald.socket
-After=systemd-journald.socket systemd-journald-dev-log.socket syslog.socket
+After=systemd-journald.socket syslog.socket
Before=sysinit.target

[Service]
Type=notify
-Sockets=systemd-journald.socket systemd-journald-dev-log.socket
+Sockets=systemd-journald.socket
ExecStart=@rootlibexecdir@/systemd-journald
Restart=always
RestartSec=0
diff --git a/units/systemd-journald.socket b/units/systemd-journald.socket
index 71737014ca..fbeb10baae 100644
--- a/units/systemd-journald.socket
+++ b/units/systemd-journald.socket
@@ -19,8 +19,8 @@ IgnoreOnIsolate=yes
[Socket]
ListenStream=/run/systemd/journal/stdout
ListenDatagram=/run/systemd/journal/socket
+ListenDatagram=/dev/log
SocketMode=0666
PassCredentials=yes
PassSecurity=yes
 ReceiveBuffer=8M
-Service=systemd-journald.service

Found in path(s):
* /systemd-219-78-el7-src-rpm-download-zip/systemd-219-78.el7.src.rpm.download/systemd-219-78.el7.src.rpm-cosi-expand-archive-AelyEoeN/0238-Revert-journald-move-dev-log-socket-to-run.patch
```

1.191 flask-cors 3.0.2

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1.192 flask-script 2.0.5

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1.193 popt 1.18-1.el8

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1.194 ima-evm-utils 1.3.2-12.el8

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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.

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.

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1.198 gtk 2.24.32-5.el8

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[This is the first released version of the library GPL. It is
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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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a) The modified work must itself be a software library.

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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
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However, linking a "work that uses the Library" with the Library
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Section 6 states terms for distribution of such executables.

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

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

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1.204 newt 0.52.20-11.el8

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

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1.205 click 7.0

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\$ click_
==========

Click is a Python package for creating beautiful command line interfaces
in a composable way with as little code as necessary. It's the "Command
Line Interface Creation Kit". It's highly configurable but comes with
sensible defaults out of the box.

It aims to make the process of writing command line tools quick and fun
while also preventing any frustration caused by the inability to
implement an intended CLI API.

Click in three points:

- Arbitrary nesting of commands
- Automatic help page generation
- Supports lazy loading of subcommands at runtime

Installing

Install and update using `pip`_:

.. code-block:: text

  $ pip install click

Click supports Python 3.4 and newer, Python 2.7, and PyPy.

.. _pip: https://pip.pypa.io/en/stable/quickstart/

A Simple Example

What does it look like? Here is an example of a simple Click program:

.. code-block:: python

```
import click

@click.command()
@click.option("--count", default=1, help="Number of greetings.")
@click.option("--name", prompt="Your name",
              help="The person to greet.")
def hello(count, name):
    """Simple program that greets NAME for a total of COUNT times."""
    for _ in range(count):
        click.echo("Hello, %s!" % name)

if __name__ == '__main__':
    hello()
```

And what it looks like when run:

.. code-block:: text

```
$ python hello.py --count=3
Your name: Click
Hello, Click!
Hello, Click!
Hello, Click!
```

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The Pallets organization develops and supports Click and other popular
packages. In order to grow the community of contributors and users, and
allow the maintainers to devote more time to the projects, `please
donate today`_.

.. _please donate today: https://palletsprojects.com/donate

Links
-----

* Website: https://palletsprojects.com/p/click/

* Documentation: https://click.palletsprojects.com/
*
License: `BSD <https://github.com/pallets/click/blob/master/LICENSE.rst>`_
* Releases: https://pypi.org/project/click/
* Code: https://github.com/pallets/click
* Issue tracker: https://github.com/pallets/click/issues
* Test status:

  * Linux, Mac: https://travis-ci.org/pallets/click
  * Windows: https://ci.appveyor.com/project/pallets/click

* Test coverage: https://codecov.io/gh/pallets/click

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Click uses parts of optparse written by Gregory P. Ward and maintained
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* /pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/__init__.py
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.. _contrib:

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

click-contrib
=============

As the userbase of Click grows, more and more major feature requests pop up in
Click's bugtracker. As reasonable as it may be for those features to be bundled
with Click instead of being a standalone project, many of those requested
features are either highly experimental or have unproven practical use, while
potentially being a burden to maintain.

This is why click-contrib_ exists. The GitHub organization is a collection of
possibly experimental third-party packages whose featureset does not belong
into Click, but also a playground for major features that may be added to Click
in the future. It is also meant to coordinate and concentrate effort on writing
third-party extensions for Click, and to ease the effort of searching for such
extensions. In that sense it could be described as a low-maintenance
alternative to extension repositories of other frameworks.

Please
 note that the quality and stability of those packages may be different
than what you expect from Click itself. While published under a common
organization, they are still projects separate from Click.

.. _click-contrib: https://github.com/click-contrib/

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* /pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/docs/contrib.rst
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```
import io
import re
from setuptools import setup

with io.open("README.rst", "rt", encoding="utf8") as f:
  readme = f.read()

with io.open("click/__init__.py", "rt", encoding="utf8") as f:
  version = re.search(r"__version__ = \'(.*?)\'", f.read()).group(1)

setup(
  name="Click",
  version=version,
  url="https://palletsprojects.com/p/click/",
  project_urls={
     "Documentation": "https://click.palletsprojects.com/",
     "Code": "https://github.com/pallets/click",
     "Issue tracker": "https://github.com/pallets/click/issues",
  },
  license="BSD",
```

```
  author="Armin Ronacher",
  author_email="armin.ronacher@active-4.com",
  maintainer="Pallets Team",
  maintainer_email="contact@palletsprojects.com",
  description="Composable command line interface toolkit",
  long_description=readme,
  packages=["click"],
  include_package_data=True,
  python_requires=">=2.7, !=3.0.*, !=3.1.*,
!=3.2.*, !=3.3.*",
  classifiers=[
      "Development Status :: 5 - Production/Stable",
      "Intended Audience :: Developers",
      "License :: OSI Approved :: BSD License",
      "Operating System :: OS Independent",
      "Programming Language :: Python",
      "Programming Language :: Python :: 2",
      "Programming Language :: Python :: 2.7",
      "Programming Language :: Python :: 3",
      "Programming Language :: Python :: 3.4",
      "Programming Language :: Python :: 3.5",
      "Programming Language :: Python :: 3.6",
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  ],
)
```

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* /pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/setup.py
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```
# binary only, patch it back to the system, and then use a wrapper
```

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* /pallets-click-7-0-0-ga936b99-1-tar-gz/pallets-click-a936b99/click/_compat.py

1.206 boringssl 2.0.22.Final

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any
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1.211 lockfile 1.0.4

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1.213 ansible 2.9.1

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 - prepare_vmware_tests
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- when: vcsim is not defined
block:
- name: Add a vCenter evaluation license

```
  vcenter_license: &vcenter_lic_data
    hostname: "{{ vcenter_hostname }}"
    username: "{{ vcenter_username }}"
    password: "{{ vcenter_password }}"
    validate_certs: no
    license: 00000-00000-00000-00000-00000
    state: present

- name: Remove an (unused) vCenter evaluation license
  vcenter_license:
    <<: *vcenter_lic_data
    state: absent

- name: Add an invalid vCenter license
  vcenter_license:
    <<: *vcenter_lic_data
    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'
```

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1.214 flask-migrate 2.0.3

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1.215 flask-appbuilder 1.9.1

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1.216 flask-testing 0.6.2

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1.217 jackson-dataformat-xml 2.4.4

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1.218 flask-wtf 0.14.2

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1.219 flask-sqlalchemy 2.1

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1.220 berkeley-db 5.3.28-42.el8_4

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* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParser.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/parser/JSONParserMemory.java
* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/CompessorMapper.java
*
/json-smart-2-3-sources-6-jar/net/minidev/json/JSONUtil.java
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* /json-smart-2-3-sources-6-jar/net/minidev/json/writer/JsonReaderI.java
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1.228 sshpass 1.09

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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
lib/libgss/g_unseal.c
lib/libgss/g_userok.c
lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c

lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

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including
the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
kprop/kproplog.c

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1.241 libcap-ng 0.7.11-1.el8

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executable containing the modified Library. (It is understood
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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
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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
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interface-compatible with the version that the work was made with.

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1.244 copy-jdk-configs 4.0-2.el8

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1.246 rfkill 2.32.1

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1.250 xorg-x11-font-utils 7.5-41.el8

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1.251 pango 1.42.4-8.el8

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1.252 libxfont 7.5-41.el8

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1.253 x-crypto 0.0.0-20211202192323-5770296d904e

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1.256 apache-log4j 2.17.1

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

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If distribution of object code is made by offering access to copy
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If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
file is unrestricted, regardless of whether it is legally a derivative
work. (Executables containing this object code plus portions of the
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Otherwise, if the work is a derivative of the Library, you may
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object code for the work under the terms of Section 6.
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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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1.261 open-ldap 2.4.46-18.el8

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1.264 tpm2-tss-tcti 2.3.2-4.el8

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1.266 libmodulemd 2.13.0-1.el8

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Found in path(s):
* /filesystem-3.8-6.el8.src.rpm-cosi-expand-archive-hfVt6mML/filesystem.spec

1.269 wtforms 3.0.1

1.269.1 Available under license :

BSD-3-Clause

1.270 jctools-core 2.1.1

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Found in path(s):
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/BaseLinkedQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpmcAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscChunkedAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingHashMap.java
* /jctools-core-2-1-1-sources-jar/org/jctools/util/UnsafeAccess.java
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 /jctools-core-2-1-1-sources-jar/org/jctools/queues/SpscUnboundedArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/LinkedQueueNode.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscChunkedArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/SpscArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpscUnboundedAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscGrowableAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/AtomicReferenceArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpscLinkedAtomicQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/maps/ConcurrentAutoTable.java
* /jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingSetInt.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/MessagePassingQueueUtil.java
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* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpscAtomicArrayQueue.java
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* /jctools-core-2-1-1-sources-jar/org/jctools/queues/SpmcArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/util/RangeUtil.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/LinkedQueueAtomicNode.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SequencedAtomicReferenceArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/spec/Preference.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/spec/Ordering.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscLinkedQueue7.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/BaseMpscLinkedArrayQueue.java
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* /jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingHashSet.java
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* /jctools-core-2-1-1-sources-jar/org/jctools/queues/MessagePassingQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/util/Pow2.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscUnboundedAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/BaseSpscLinkedAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/SpscGrowableArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/MpmcArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/spec/ConcurrentQueueSpec.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/SpscLinkedQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/util/UnsafeRefArrayAccess.java

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/jctools-core-2-1-1-sources-jar/org/jctools/queues/package-info.java
* /jctools-core-2-1-1-sources-jar/org/jctools/maps/AbstractEntry.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscCompoundQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpscLinkedAtomicQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/BaseMpscLinkedAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/maps/NonBlockingHashMapLong.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/BaseSpscLinkedArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpscChunkedAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/MpmcAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/BaseLinkedAtomicQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/IndexedQueueSizeUtil.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscLinkedQueue.java
*
/jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/ConcurrentSequencedCircularArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/SpscGrowableAtomicArrayQueue.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/atomic/AtomicQueueFactory.java
* /jctools-core-2-1-1-sources-jar/org/jctools/queues/MpscUnboundedArrayQueue.java
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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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</distributionManagement>

<url>https://github.com/JCTools</url>
<inceptionYear>2013</inceptionYear>

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  <url>http://www.apache.org/licenses/LICENSE-2.0.txt</url>
  <distribution>repo</distribution>
 </license>
</licenses>

<scm>
 <url>https://github.com/JCTools/JCTools</url>
 <connection>scm:git:https://github.com/JCTools/JCTools</connection>
 <tag>HEAD</tag>
</scm>

<developers>
 <developer>
  <url>https://github.com/nitsanw</url>
 </developer>
 <developer>
  <url>https://github.com/mjpt777</url>
 </developer>
 <developer>
  <url>https://github.com/RichardWarburton</url>
```

```
 </developer>
 <developer>
  <url>https://github.com/Kay</url>
 </developer>
</developers>

<prerequisites>
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</prerequisites>

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       <java.test.version>1.8</java.test.version>

      <maven.compiler.source>${java.version}</maven.compiler.source>
       <maven.compiler.target>${java.version}</maven.compiler.target>
      <maven.compiler.testSource>${java.test.version}</maven.compiler.testSource>
       <maven.compiler.testTarget>${java.test.version}</maven.compiler.testTarget>


   <hamcrest.version>1.3</hamcrest.version>
       <junit.version>4.12</junit.version>
      <guava-testlib.version>21.0</guava-testlib.version>
 </properties>
</project>
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Found in path(s):
* /jctools-core-2-1-1-sources-jar/META-INF/maven/org.jctools/jctools-core/pom.xml

1.271 accessors-smart 1.2

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Found in path(s):
* /accessors-smart-1-2-sources-jar/net/minidev/asm/DynamicClassLoader.java
* /accessors-smart-1-2-sources-jar/net/minidev/asm/ASMUtil.java
* /accessors-smart-1-2-sources-jar/net/minidev/asm/BeansAccess.java
* /accessors-smart-1-2-sources-jar/net/minidev/asm/Accessor.java

1.272 netty-resolver 4.1.35.Final

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Found in path(s):
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/InetNameResolver.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/DefaultAddressResolverGroup.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/HostsFileParser.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/InetSocketAddressResolver.java
*
 /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/DefaultHostsFileEntriesResolver.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/AbstractAddressResolver.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/DefaultNameResolver.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/HostsFileEntriesResolver.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/CompositeNameResolver.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/AddressResolver.java
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* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/RoundRobinInetAddressResolver.java
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* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/NameResolver.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/package-info.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/SimpleNameResolver.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/AddressResolverGroup.java
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 /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/NoopAddressResolverGroup.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/NoopAddressResolver.java
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* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/HostsFileEntries.java
* /netty-resolver-4-1-35-final-sources-jar/io/netty/resolver/ResolvedAddressTypes.java

1.273 netty-handler 4.1.35.Final

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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/traffic/AbstractTrafficShapingHandler.java
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Found in path(s):
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/package-info.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/stream/package-info.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/stream/ChunkedStream.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/stream/ChunkedWriteHandler.java
*
 /netty-handler-4-1-35-final-sources-jar/io/netty/handler/timeout/IdleState.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/logging/package-info.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/stream/ChunkedInput.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/timeout/ReadTimeoutHandler.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/stream/ChunkedFile.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/timeout/ReadTimeoutException.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/timeout/IdleStateEvent.java
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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/stream/ChunkedNioStream.java
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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/stream/ChunkedNioFile.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/NotSslRecordException.java

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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/traffic/package-info.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/traffic/TrafficCounter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/traffic/ChannelTrafficShapingHandler.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/traffic/GlobalTrafficShapingHandler.java
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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslSessionTicketKey.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SslContextBuilder.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNames.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslJavaxX509Certificate.java
*
 /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolAccessor.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ClientAuth.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiationHandler.java
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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/PemReader.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/util/SimpleTrustManagerFactory.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ipfilter/IpFilterRule.java
*
 /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslApplicationProtocolNegotiator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SupportedCipherSuiteFilter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolConfig.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslNpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/IdentityCipherSuiteFilter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkSslContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JettyAlpnSslEngine.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JettyNpnSslEngine.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ipfilter/package-info.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkNpnApplicationProtocolNegotiator.java

*
/netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/util/FingerprintTrustManagerFactory.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslClientContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolUtil.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslEngineMap.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ApplicationProtocolNegotiator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslX509Certificate.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/util/BouncyCastleSelfSignedCertGenerator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/util/OpenJdkSelfSignedCertGenerator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSsl.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ipfilter/IpFilterRuleType.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkSslClientContext.java
*
/netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkDefaultApplicationProtocolNegotiator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslEngine.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SniHandler.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslSessionStats.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/util/ThreadLocalInsecureRandom.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ipfilter/IpSubnetFilterRule.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/traffic/GlobalChannelTrafficCounter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkAlpnApplicationProtocolNegotiator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkApplicationProtocolNegotiator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslServerSessionContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/util/InsecureTrustManagerFactory.java
*
/netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslSessionContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SslProvider.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/CipherSuiteConverter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SslUtils.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkSslServerContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SslContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkBaseApplicationProtocolNegotiator.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ipfilter/AbstractRemoteAddressFilter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ipfilter/UniqueIpFilter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/Java7SslParametersUtils.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslContext.java
*
/netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/CipherSuiteFilter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ipfilter/RuleBasedIpFilter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/JdkSslEngine.java
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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/PemPrivateKey.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslClientContext.java
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 /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/DelegatingSslContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialManager.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/util/X509TrustManagerWrapper.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslEngine.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/flush/FlushConsolidationHandler.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/PemEncoded.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslCertificateException.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/PemValue.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ReferenceCountedOpenSslServerContext.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/flow/package-info.java
*
 /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/PemX509Certificate.java
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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/Java9SslUtils.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SslCompletionEvent.java
*
/netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/Java9SslEngine.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ocsp/OcspClientHandler.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ConscryptAlpnSslEngine.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SniCompletionEvent.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ocsp/package-info.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/Conscrypt.java
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* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslTlsv13X509ExtendedTrustManager.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterialProvider.java
*
 /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslX509KeyManagerFactory.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslSession.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslCachingKeyMaterialProvider.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslPrivateKey.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslX509TrustManagerWrapper.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslCachingX509KeyManagerFactory.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/SignatureAlgorithmConverter.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/ExtendedOpenSslSession.java
* /netty-handler-4-1-35-final-sources-jar/io/netty/handler/ssl/OpenSslKeyMaterial.java

1.274 netty-transport 4.1.35.Final

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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelFutureListener.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/embedded/EmbeddedSocketAddress.java
*
 /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/FixedRecvByteBufAllocator.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/nio/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/DatagramChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/ServerSocketChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/nio/NioEventLoopGroup.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelFuture.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/group/ChannelGroupFuture.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/group/DefaultChannelGroupFuture.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelInboundHandler.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/MultithreadEventLoopGroup.java
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 /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/DatagramChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelInboundHandlerAdapter.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/oio/AbstractOioByteChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/SocketChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/bootstrap/ServerBootstrap.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/SocketChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/nio/ProtocolFamilyConverter.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/local/LocalEventLoopGroup.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/embedded/EmbeddedEventLoop.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/nio/package-info.java
*
 /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelOutboundHandlerAdapter.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultChannelPromise.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/CombinedChannelDuplexHandler.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultEventLoop.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelOutboundHandler.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelOption.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/group/CombinedIterator.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/CompleteChannelFuture.java

* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/AbstractChannelHandlerContext.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/local/LocalChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/local/LocalChannelRegistry.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelPromiseNotifier.java
*
 /netty-transport-4-1-35-final-sources-jar/io/netty/channel/nio/AbstractNioByteChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/AdaptiveRecvByteBufAllocator.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultFileRegion.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/oio/OioEventLoopGroup.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/nio/NioEventLoop.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/nio/NioTask.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelPromiseAggregator.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelException.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/ServerSocketChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannel.java
*
 /netty-transport-4-1-35-final-sources-jar/io/netty/bootstrap/AbstractBootstrap.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/AbstractServerChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/oio/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultChannelPipeline.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/DefaultServerSocketChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/FailedChannelFuture.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/group/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/DefaultSocketChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/VoidChannelPromise.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/oio/AbstractOioMessageChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelFlushPromiseNotifier.java
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 /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/oio/OioServerSocketChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/EventLoopGroup.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/local/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/AbstractChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/group/ChannelGroupFutureListener.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/DatagramPacket.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownEvent.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/local/LocalServerChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ServerChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelDuplexHandler.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/Channel.java
*
 /netty-transport-4-1-35-final-sources-jar/io/netty/channel/SucceededChannelFuture.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/oio/AbstractOioChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelHandlerContext.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/oio/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/EventLoopException.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/oio/OioSocketChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelPromise.java

* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/EventLoop.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/embedded/EmbeddedChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultEventLoopGroup.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/nio/AbstractNioMessageChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelPipelineException.java
*
/netty-transport-4-1-35-final-sources-jar/io/netty/channel/nio/AbstractNioChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelInitializer.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelMetadata.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/embedded/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/RecvByteBufAllocator.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ThreadPerChannelEventLoopGroup.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelPipeline.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/SingleThreadEventLoop.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/DefaultDatagramChannelConfig.java
*
/netty-transport-4-1-35-final-sources-jar/io/netty/channel/local/LocalAddress.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/bootstrap/package-info.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/nio/NioSocketChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/nio/NioDatagramChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/nio/NioServerSocketChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/bootstrap/Bootstrap.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/FileRegion.java
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelFactory.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/AbstractEventLoop.java
*
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*/
/**
* Handles an I/O event or intercepts an I/O operation, and forwards it to its next handler in
* its {@link ChannelPipeline}.
*
* <h3>Sub-types</h3>
* <p>
* {@link ChannelHandler} itself does not provide many methods, but you usually have to implement one of its
subtypes:
* <ul>
* <li>{@link
 ChannelInboundHandler} to handle inbound I/O events, and</li>
* <li>{@link ChannelOutboundHandler} to handle outbound I/O operations.</li>
* </ul>
* </p>
* <p>
* Alternatively, the following adapter classes are provided for your convenience:
* <ul>
* <li>{@link ChannelInboundHandlerAdapter} to handle inbound I/O events,</li>
* <li>{@link ChannelOutboundHandlerAdapter} to handle outbound I/O operations, and</li>
* <li>{@link ChannelDuplexHandler} to handle both inbound and outbound events</li>
* </ul>
* </p>
* <p>
* For more information, please refer to the documentation of each subtype.
* </p>
*
* <h3>The context object</h3>
* <p>
* A {@link ChannelHandler} is provided with a {@link ChannelHandlerContext}
* object.  A {@link ChannelHandler} is supposed to interact with the
* {@link ChannelPipeline} it belongs to via a context object.  Using the
* context object, the {@link ChannelHandler} can pass events upstream or
* downstream, modify the pipeline dynamically,
 or store the information
* (using {@link AttributeKey}s) which is specific to the handler.
*
* <h3>State management</h3>
*
* A {@link ChannelHandler} often needs to store some stateful information.
* The simplest and recommended approach is to use member variables:
* <pre>
* public interface Message {
*     // your methods here
* }
```

```
*
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*
*     <b>private boolean loggedIn;</b>
*
*     {@code @Override}
*     public void channelRead0({@link ChannelHandlerContext} ctx, Message message) {
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) message);
*             <b>loggedIn = true;</b>
*         } else (message instanceof GetDataMessage) {
*             if (<b>loggedIn</b>) {
*                 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:
* <pre>
* // Create a new handler instance per channel.
* // See {@link ChannelInitializer#initChannel(Channel)}.
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*     {@code @Override}
*     public void initChannel({@link Channel} channel) {
*         channel.pipeline().addLast("handler", <b>new DataServerHandler()</b>);
*     }
* }
*
* </pre>
*
* <h4>Using {@link AttributeKey}s</h4>
*
* Although it's recommended to use member variables to store the state of a
* handler, for some reason you might not want to create many handler instances.
* In such a case, you can use {@link AttributeKey}s which is provided by
* {@link ChannelHandlerContext}:
 * <pre>
* public interface Message {
*     // your methods here
* }
*
```

```
* {@code @Sharable}
* public class DataServerHandler extends {@link SimpleChannelInboundHandler}&lt;Message&gt; {
*     private final {@link AttributeKey}&lt;{@link Boolean}&gt; auth =
*           {@link AttributeKey#valueOf(String) AttributeKey.valueOf("auth")};
*
*     {@code @Override}
*     public void channelRead({@link ChannelHandlerContext} ctx, Message message) {
*         {@link Attribute}&lt;{@link Boolean}&gt; attr = ctx.attr(auth);
*         if (message instanceof LoginMessage) {
*             authenticate((LoginMessage) o);
*             <b>attr.set(true)</b>;
*         } else (message instanceof GetDataMessage) {
*             if (<b>Boolean.TRUE.equals(attr.get())</b>) {
*                 ctx.writeAndFlush(fetchSecret((GetDataMessage) o));
*             } else {
*                 fail();
*             }
*         }
*     }
*     ...
* }
* </pre>
* Now that the state
 of the handler is attached to the {@link ChannelHandlerContext}, you can add the
* same handler instance to different pipelines:
* <pre>
* public class DataServerInitializer extends {@link ChannelInitializer}&lt;{@link Channel}&gt; {
*
*     private static final DataServerHandler <b>SHARED</b> = 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
* <a href="http://www.javaconcurrencyinpractice.com/annotations/doc/">the JCIP annotations</a>.
*
* <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.
*/
```

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* /netty-transport-4-1-35-final-sources-jar/io/netty/bootstrap/AbstractBootstrapConfig.java
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 /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultSelectStrategy.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/bootstrap/BootstrapConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultSelectStrategyFactory.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/SelectStrategyFactory.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelInboundInvoker.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelOutboundInvoker.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/DuplexChannel.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/WriteBufferWaterMark.java
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/ChannelInputShutdownReadComplete.java
*

/netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownEvent.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DelegatingChannelPromiseNotifier.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/oio/DefaultOioDatagramChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/nio/SelectedSelectionKeySetSelector.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/oio/OioDatagramChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/internal/ChannelUtils.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/ChannelOutputShutdownException.java
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/SimpleChannelInboundHandler.java
*
/netty-transport-4-1-35-final-sources-jar/io/netty/channel/MessageSizeEstimator.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/bootstrap/ChannelFactory.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelOutboundBuffer.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/oio/DefaultOioSocketChannelConfig.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/group/ChannelMatcher.java
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/group/DefaultChannelGroup.java
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelHandlerAdapter.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/ChannelProgressiveFutureListener.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultChannelProgressivePromise.java
*
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/socket/oio/DefaultOioServerSocketChannelConfig.java
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultMaxMessagesRecvByteBufAllocator.java
*
 /netty-transport-4-1-35-final-sources-jar/io/netty/channel/pool/ChannelHealthChecker.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/pool/ChannelPoolMap.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/pool/ChannelPool.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/MaxBytesRecvByteBufAllocator.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/MaxMessagesRecvByteBufAllocator.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/DefaultMaxBytesRecvByteBufAllocator.java
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/pool/AbstractChannelPoolMap.java
* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/pool/ChannelPoolHandler.java
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* /netty-transport-4-1-35-final-sources-jar/io/netty/channel/CoalescingBufferQueue.java

1.275 netty-codec 4.1.35.Final

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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/ValueConverter.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/DefaultHeadersImpl.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/CharSequenceValueConverter.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/MessageAggregationException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Lz4Constants.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameEncoder.java
*
/netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/FastLz.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2MTFAndRLE2StageEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2Constants.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/LzfEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/DecoderResultProvider.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2Encoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanAllocator.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/LzmaFrameEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitWriter.java
*
/netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2BitReader.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2DivSufSort.java

* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2HuffmanStageDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Lz4FrameEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2Decoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/json/JsonObjectDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockDecompressor.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2BlockCompressor.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/FastLzFrameDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Crc32.java
*
/netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/AsciiHeadersEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2Rand.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Bzip2MoveToFrontTable.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/LzfDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/json/package-info.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/SnappyFramedDecoder.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/EmptyHeaders.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/Headers.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/DefaultHeaders.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.
*
* <h3>2 bytes length field at offset 0, do not strip header</h3>
*
* The value of the length field in this example is <tt>12 (0x0C)</tt> 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.
* <pre>
* <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.
* <pre>
```

```
* 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.
* <pre>
* 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>
*
* <h3>3 bytes length field at the end of 5 bytes header, do not strip header</h3>
*
* The following message is a simple variation of the first example.  An extra
* header value is prepended to the message.  <tt>lengthAdjustment</tt> is zero
* again because the decoder always takes the length of the prepended data into
* account during frame length calculation.
* <pre>
* <b>lengthFieldOffset</b>   = <b>2</b> (= the length of Header 1)
* <b>lengthFieldLength</b>   = <b>3</b>
* lengthAdjustment    = 0
* initialBytesToStrip = 0
*
```

```
* 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>
*
* <h3>3 bytes length field at the beginning of 5 bytes header, do not strip header</h3>
*
* This is an advanced example that shows the case where there is an extra
* header between the length field and the message body.  You have to specify a
* positive <tt>lengthAdjustment</tt> so that the decoder counts the extra
* header into the frame length calculation.
* <pre>
* lengthFieldOffset   = 0
* lengthFieldLength   = 3
* <b>lengthAdjustment</b>    = <b>2</b> (= the length of Header 1)
* initialBytesToStrip = 0
*
* 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>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field</h3>
*
* This is a combination of all the examples above.  There are the prepended
* header before the length field and the extra header after the length field.
* The prepended header affects the <tt>lengthFieldOffset</tt> and the extra
* header affects the <tt>lengthAdjustment</tt>.  We also specified a non-zero
* <tt>initialBytesToStrip</tt> to strip the length field and the prepended
* header from the frame.  If you don't want to strip the prepended header, you
* could specify <tt>0</tt> for <tt>initialBytesToSkip</tt>.
* <pre>
* lengthFieldOffset   = 1 (= the length of HDR1)
* lengthFieldLength   = 2
* <b>lengthAdjustment</b>    = <b>1</b> (= the length of HDR2)
* <b>initialBytesToStrip</b> = <b>3</b> (= the length of HDR1 + LEN)
 *
* BEFORE DECODE (16 bytes)                 AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x000C | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
```

```
* +------+--------+------+----------------+      +------+----------------+
* </pre>
*
* <h3>2 bytes length field at offset 1 in the middle of 4 bytes header,
*     strip the first header field and the length field, the length field
*     represents the length of the whole message</h3>
*
* Let's give another twist to the previous example.  The only difference from
* the previous example is that the length field represents the length of the
* whole message instead of the message body, just like the third example.
* We have to count the length of HDR1 and Length into <tt>lengthAdjustment</tt>.
* Please note that we don't need to take the length of HDR2 into account
* because
 the length field already includes the whole header length.
* <pre>
* lengthFieldOffset   =  1
* lengthFieldLength   =  2
* <b>lengthAdjustment</b>    = <b>-3</b> (= the length of HDR1 + LEN, negative)
* <b>initialBytesToStrip</b> = <b> 3</b>
*
* BEFORE DECODE (16 bytes)                       AFTER DECODE (13 bytes)
* +------+--------+------+----------------+      +------+----------------+
* | HDR1 | Length | HDR2 | Actual Content |----->| HDR2 | Actual Content |
* | 0xCA | 0x0010 | 0xFE | "HELLO, WORLD" |      | 0xFE | "HELLO, WORLD" |
* +------+--------+------+----------------+      +------+----------------+
* </pre>
* @see LengthFieldPrepender
*/
```

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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/LengthFieldBasedFrameDecoder.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Crc32c.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/JdkZlibDecoder.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/HeadersUtils.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32FrameDecoder.java
*
 /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufVarint32LengthFieldPrepender.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoderNano.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/ProtocolDetectionResult.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/protobuf/ProtobufDecoderNano.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/ProtocolDetectionState.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/UnsupportedValueConverter.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/DateFormatter.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/CodecOutputList.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/ByteBufChecksum.java
*
 /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/CompressionUtil.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/string/LineSeparator.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/DatagramPacketEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/string/LineEncoder.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/MessageToByteEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/ZlibCodecFactory.java
*
 /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/ContextBoundUnmarshallerProvider.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/package-info.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/CachingClassResolver.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/package-info.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/ReplayingDecoderByteBuf.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalUnmarshallerProvider.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/DecoderException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/SoftReferenceMap.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/base64/Base64Decoder.java

* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/ClassLoaderClassResolver.java
*
 /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/DecompressionException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/ReferenceMap.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/UnmarshallerProvider.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/ZlibDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/CorruptedFrameException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/Snappy.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/ClassResolvers.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/EncoderException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/CompressionException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/LengthFieldPrepender.java
*
 /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteOutput.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/base64/Base64Encoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/Delimiters.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/JdkZlibEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/ClassResolver.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/TooLongFrameException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/FixedLengthFrameDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/base64/package-info.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/MessageToMessageEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameEncoder.java
*
 /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectInputStream.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/JZlibDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/string/package-info.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/ByteToMessageDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/ThreadLocalMarshallerProvider.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/ObjectDecoderInputStream.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/package-info.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/CompatibleMarshallingDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/bytes/ByteArrayDecoder.java
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 /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/DefaultUnmarshallerProvider.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/bytes/package-info.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/MessageToMessageCodec.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/DelimiterBasedFrameDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/DecoderResult.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/MessageAggregator.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/LimitingByteInput.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/string/StringDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/ChannelBufferByteInput.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/JZlibEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/CodecException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/package-info.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/LineBasedFrameDecoder.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/MessageToMessageDecoder.java
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* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/WeakReferenceMap.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/ZlibUtil.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/marshalling/MarshallingDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/ObjectEncoderOutputStream.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/serialization/CompactObjectOutputStream.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/SnappyFrameDecoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/compression/ZlibEncoder.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/UnsupportedMessageTypeException.java
* /netty-codec-4-1-35-final-sources-jar/io/netty/handler/codec/ReplayingDecoder.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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*/
/**
* Utility class for {@link ByteBuf} that encodes and decodes to and from
* <a href="http://en.wikipedia.org/wiki/Base64">Base64</a> notation.
* <p>
*
 The encoding and decoding algorithm in this class has been derived from
* <a href="http://iharder.sourceforge.net/current/java/base64/">Robert Harder's Public Domain
* Base64 Encoder/Decoder</a>.
*/
```

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1.276 jackson-annotations 2.10.2

1.276.1 Available under license :

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1.277 netty-codec-http 4.1.35.Final

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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpConstants.java
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 /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketUtil.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/DefaultLastHttpContent.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpHeaders.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/QueryStringDecoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/QueryStringEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/CloseWebSocketFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/multipart/MemoryFileUpload.java
* /netty-codec-http-4-1-35-final-sources-
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/multipart/HttpPostBodyUtil.java
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jar/io/netty/handler/codec/http/websocketx/WebSocketServerHandshakerFactory.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpRequest.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpServerCodec.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpMethod.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/DefaultHttpRequest.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/package-info.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpResponse.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/DefaultHttpMessage.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpRequestDecoder.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpResponseDecoder.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpContentDecoder.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/multipart/InterfaceHttpData.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/PongWebSocketFrame.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpMessage.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/Cookie.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdySynStreamFrame.java
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/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdySynReplyFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpResponse.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyWindowUpdateFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionHandler.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeaders.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/WebSocketFrameEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyHeadersFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdySessionStatus.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyPingFrame.java
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/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/FullHttpRequest.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyRstStreamFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyDataFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynStreamFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrame.java
* /netty-codec-http-4-1-35-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketProtocolHandler.java
* /netty-codec-http-4-1-35-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandler.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyGoAwayFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpDecoder.java
*
/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyVersion.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyDataFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdySynReplyFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockJZlibEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHttpCodec.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyStreamFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyCodecUtil.java
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/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeadersFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cors/package-info.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/DefaultFullHttpRequest.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyWindowUpdateFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/DefaultSpdyRstStreamFrame.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/FullHttpResponse.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaders.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/FullHttpMessage.java
* /netty-codec-http-4-1-35-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocketClientProtocolHandshakeHandler.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyStreamStatus.java
*

/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/ComposedLastHttpContent.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyPingFrame.java
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jar/io/netty/handler/codec/http/websocketx/WebSocket13FrameEncoder.java
* /netty-codec-http-4-1-35-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameDecoder.java
* /netty-codec-http-4-1-35-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket08FrameEncoder.java
* /netty-codec-http-4-1-35-final-sources-
jar/io/netty/handler/codec/http/websocketx/WebSocket07FrameDecoder.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/rtsp/RtspDecoder.java
*
 /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/CookieUtil.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpUtil.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/CookieUtil.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/CookieDecoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/EmptyHttpHeaders.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/CookieEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/Cookie.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieDecoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/ServerCookieEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpScheme.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieDecoder.java
*
 /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/rtsp/RtspEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/DefaultCookie.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cookie/ClientCookieEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpExpectationFailedEvent.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/cors/CorsConfig.java

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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/ServerCookieEncoder.java
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/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockZlibDecoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/ClientCookieEncoder.java

* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpHeaderNames.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandler.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpHeadersEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionData.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/WebSocketClientCompressionHandler.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpHeaderValues.java
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/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerFrameDeflateDecoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyHeaderBlockRawDecoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtensionEncoder.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtension.java
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*
/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyProtocolException.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketExtension.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateFrameServerExtensionHandshaker.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpMessageUtil.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtensionHandshaker.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameCodec.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpStatusClass.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketServerExtension.java
*
/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/package-info.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/spdy/SpdyFrameDecoderDelegate.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateEncoder.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/Utf8FrameValidator.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/PerMessageDeflateServerExtensionHandshaker.

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/netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/compression/DeflateDecoder.java
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* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/websocketx/extensions/WebSocketClientExtensionHandshaker.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/rtsp/RtspHeaderNames.java
* /netty-codec-http-4-1-35-final-sources-jar/io/netty/handler/codec/http/HttpChunkedInput.java
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* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/RestrictedApi.java
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Found in path(s):
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/concurrent/GuardedBy.java
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/CheckReturnValue.java
* /error-prone-annotations-2-3-2-sources-
jar/com/google/errorprone/annotations/OverridingMethodsMustInvokeSuper.java
*
 /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/DoNotCall.java
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Found in path(s):
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/CompileTimeConstant.java
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/RequiredModifiers.java
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/concurrent/LazyInit.java
*
 /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/Var.java
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/ForOverride.java
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/CanIgnoreReturnValue.java
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/Immutable.java

* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/IncompatibleModifiers.java
* /error-prone-annotations-2-3-2-sources-jar/com/google/errorprone/annotations/SuppressPackageLocation.java

1.279 opentracing-api 0.31.0

1.279.1 Available under license :

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Found in path(s):
* /opentracing-api-0-31-0-sources-jar/io/opentracing/Scope.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/References.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/Tracer.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/tag/AbstractTag.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/ScopeManager.java
*
/opentracing-api-0-31-0-sources-jar/io/opentracing/propagation/TextMapInjectAdapter.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/tag/StringTag.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/propagation/TextMap.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/log/Fields.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/tag/IntOrStringTag.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/tag/Tags.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/tag/BooleanTag.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/SpanContext.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/propagation/TextMapExtractAdapter.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/Span.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/tag/IntTag.java
* /opentracing-api-0-31-0-sources-jar/io/opentracing/propagation/Format.java
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Found in path(s):
* /opentracing-api-0-31-0-sources-jar/META-INF/maven/io.opentracing/opentracing-api/pom.xml

1.280 netty-handler-proxy 4.1.35.Final

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Found in path(s):
* /netty-handler-proxy-4-1-35-final-sources-jar/io/netty/handler/proxy/ProxyConnectException.java
* /netty-handler-proxy-4-1-35-final-sources-jar/io/netty/handler/proxy/Socks4ProxyHandler.java
* /netty-handler-proxy-4-1-35-final-sources-jar/io/netty/handler/proxy/ProxyHandler.java
*
 /netty-handler-proxy-4-1-35-final-sources-jar/io/netty/handler/proxy/Socks5ProxyHandler.java
* /netty-handler-proxy-4-1-35-final-sources-jar/io/netty/handler/proxy/HttpProxyHandler.java
* /netty-handler-proxy-4-1-35-final-sources-jar/io/netty/handler/proxy/ProxyConnectionEvent.java
* /netty-handler-proxy-4-1-35-final-sources-jar/io/netty/handler/proxy/package-info.java

1.281 annotations 4.1.1.4

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Found in path(s):
* /annotations-4-1-1-4-sources-jar/android/annotation/SuppressLint.java
* /annotations-4-1-1-4-sources-jar/android/annotation/TargetApi.java

1.282 netty-codec-socks 4.1.35.Final

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Found in path(s):
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequestDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4Message.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponseDecoder.java
*
/netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ClientEncoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/package-info.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/AbstractSocks4Message.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/AbstractSocksMessage.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientEncoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequestDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponseDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponseDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5Message.java
*
/netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/AbstractSocks5Message.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5ServerEncoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequestDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerEncoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/package-info.java
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* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/SocksVersion.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthStatus.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksAuthScheme.java
*
/netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksAuthStatus.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksAddressType.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AuthMethod.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksCmdType.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksMessageType.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksCmdStatus.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandStatus.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksSubnegotiationVersion.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressType.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandType.java
*

/netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksResponseType.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksProtocolVersion.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksRequestType.java
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* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressEncoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5AddressDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/SocksPortUnificationServerHandler.java
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* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/SocksMessage.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponse.java

*
/netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ServerDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponseDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksResponse.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandResponse.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5CommandRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/package-info.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequestDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksMessageEncoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandType.java
* /netty-codec-socks-4-1-35-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthRequest.java
*
/netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/UnknownSocksResponse.java
* /netty-codec-socks-4-1-35-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequestDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/package-info.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksMessage.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialRequest.java
* /netty-codec-socks-4-1-35-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5PasswordAuthResponse.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponseDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksAuthResponse.java
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/netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksInitResponse.java
* /netty-codec-socks-4-1-35-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksAuthRequestDecoder.java
* /netty-codec-socks-4-1-35-final-sources-
jar/io/netty/handler/codec/socksx/v4/DefaultSocks4CommandResponse.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialResponse.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/DefaultSocks5InitialRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthResponse.java
*
/netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandStatus.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksCommonUtils.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5InitialResponse.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v5/Socks5PasswordAuthRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksInitRequest.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4CommandResponse.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socksx/v4/Socks4ClientDecoder.java
* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksCmdResponseDecoder.java
* /netty-codec-socks-4-1-35-final-sources-
jar/io/netty/handler/codec/socksx/v5/DefaultSocks5CommandResponse.java

* /netty-codec-socks-4-1-35-final-sources-jar/io/netty/handler/codec/socks/SocksCmdRequest.java

1.283 jackson-datatype-joda 2.4.2

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1.284 netty-tcnative-boringssl-static 2.0.25.Final

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* /netty-tcnative-boringssl-static-2-0-25-final-sources-
jar/io/netty/internal/tcnative/NativeStaticallyReferencedJniMethods.java
* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/SniHostNameMatcher.java
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Manifest-Version: 1.0
BoringSSL-Revision: 8e8f250422663106d478f6927beefba289a95b37
Bundle-Description: A Mavenized fork of Tomcat Native which incorporat
es various patches. This artifact is statically linked to BoringSS
L 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: 1555012097509
Bundle-ManifestVersion: 2
Bundle-DocURL: http://netty.io/
Bundle-Vendor: The Netty Project
Import-Package: sun.nio.ch;resolution:=optional,org.eclipse.jetty.alpn
;version="[1,2)";resolution:=optional,org.eclipse.jetty.npn;version="
[1,2)";resolution:=optional
Tool: Bnd-2.1.0.20130426-122213
Export-Package: io.netty.internal.tcnative;version="2.0.25.Final"
Bundle-Name: Netty/TomcatNative [BoringSSL
 - Static]
Bundle-Version: 2.0.25.Final
BoringSSL-Branch: chromium-stable
Bundle-NativeCode: META-INF/native/libnetty_tcnative.jnilib;osname=mac
osx;;processor=x86_64
Created-By: Apache Maven Bundle Plugin
Build-Jdk: 1.8.0_181

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* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodSignTask.java
* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethod.java
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 /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/SSLPrivateKeyMethodTask.java
* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/CertificateCallbackTask.java
* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/CertificateVerifierTask.java
* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/SSLTask.java
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* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/SSL.java
* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/Buffer.java
* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/Library.java
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* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/SessionTicketKey.java
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* /netty-tcnative-boringssl-static-2-0-25-final-sources-jar/io/netty/internal/tcnative/CertificateVerifier.java

1.285 sphinx-rtd-theme 0.2.5b2

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sphinx_rtd_theme/static/fonts/RobotoSlab-Regular.tt/

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 /ninja-metrics-4-0-2-sources-jar/ninja/metrics/InstrumentedMemcached.java
* /ninja-metrics-4-0-2-sources-jar/ninja/metrics/MeteredInterceptor.java
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1.287 jackson-module-jsonschema 2.4.4

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1.288 libwebp 1.0.0-5.el8

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1.289 cpio 2.12-11.el8

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1.291 binutils 2.30-113.el8

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nickc@redhat.com and I'll correct the situation.

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the documentation, and info on specific files will go into an AUTHORS
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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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former contains code derived from the library, while the latter only
works together with the library.

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

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

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

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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.

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

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

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

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

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

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

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.

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

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

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

6. As an exception to the Sections above, you may also 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
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work
based on the Library, uncombined with any other library
facilities. This must be distributed under the terms of the
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b) Give prominent notice with the combined library of the fact
that part of it is a work based on the
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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

<one line to give the library's name and a brief idea of what it does.>
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You should also get your employer (if you work as a programmer) or your
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<signature of Ty Coon>, 1 April 1990
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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

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"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

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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.

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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.

1. 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.

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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4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating 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.

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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
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additional terms, to the whole of the work, and all its parts,
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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.

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.

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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 unpacking, reading or copying.

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"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

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1.292 cyrus-sasl 2.1.27-6.el8_5

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1.293 python-pip 22.0.4

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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $
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 (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.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes

2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

Footnotes:

(1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.

(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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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
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1.3 thru 1.5.2 1.2 1995-1999 CNRI yes
1.6 1.5.2 2000 CNRI no
2.0 1.6 2000 BeOpen.com no
1.6.1 1.6 2001 CNRI yes (2)
2.1 2.0+1.6.1 2001 PSF no
2.0.1 2.0+1.6.1 2001 PSF yes
2.1.1 2.1+2.0.1 2001 PSF yes
2.2 2.1.1 2001 PSF yes
2.1.2 2.1.1 2002 PSF yes
2.1.3
2.1.2 2002 PSF yes
2.2.1 2.2 2002 PSF yes
2.2.2 2.2.1 2002 PSF yes
2.2.3 2.2.2 2003 PSF yes
2.3 2.2.2 2002-2003 PSF yes
2.3.1 2.3 2002-2003 PSF yes
2.3.2 2.3.1 2002-2003 PSF yes
2.3.3 2.3.2 2002-2003 PSF yes
2.3.4 2.3.3 2004 PSF yes
2.3.5 2.3.4 2005 PSF yes
2.4 2.3 2004 PSF yes
2.4.1 2.4 2005 PSF yes
2.4.2 2.4.1 2005 PSF yes
2.4.3 2.4.2 2006 PSF yes
2.4.4 2.4.3 2006 PSF yes
2.5 2.4 2006 PSF yes
2.5.1 2.5 2007 PSF yes
2.5.2 2.5.1 2008 PSF yes
2.5.3 2.5.2 2008 PSF yes
2.6 2.5 2008 PSF yes
2.6.1 2.6 2008 PSF yes
2.6.2 2.6.1 2009 PSF yes
2.6.3 2.6.2 2009 PSF yes
2.6.4 2.6.3 2009 PSF yes
2.6.5 2.6.4 2010 PSF yes
3.0 2.6 2008 PSF yes
3.0.1 3.0 2009 PSF yes
3.1 3.0.1 2009 PSF yes
3.1.1 3.1 2009 PSF yes
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After argparse 1.1, all project files from the argparse project were deleted
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The project repository then had a clean start with some files taken from
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============
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============

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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above				
2.1.1		2001-now	PSF	yes

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1.297 expat 2.4.7

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1.298 jjwt 0.9.1

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Found in path(s):
* /jjwt-0-9-1-sources-jar/META-INF/maven/io.jsonwebtoken/jjwt/pom.xml

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Found in path(s):
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveProvider.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSignatureValidator.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultTextCodecFactory.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/TextCodecFactory.java
*
 /jjwt-0-9-1-sources-jar/io/jsonwebtoken/InvalidClaimException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/EllipticCurveSigner.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionCodecResolver.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/DefaultCompressionCodecResolver.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/IncorrectClaimException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/DeflateCompressionCodec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionCodec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/GzipCompressionCodec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/CompressionCodecs.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/compression/AbstractCompressionCodec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/MissingClaimException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/AndroidBase64Codec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/CompressionException.java
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Found in path(s):
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/RsaSigner.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtHandler.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/SigningKeyResolverAdapter.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/ClaimJwtException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jws.java
*
 /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureValidatorFactory.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/Claims.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/InstantiationException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultJwtSigner.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/ClaimsMutator.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultJwtSignatureValidator.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/UnsupportedJwtException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacValidator.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwtBuilder.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/JwtSigner.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwsHeader.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/ExpiredJwtException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/JwtSignatureValidator.java
*
 /jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Classes.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/TextCodec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultHeader.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/UnknownClassException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwtParser.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignerFactory.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/RsaProvider.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jwts.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/Signer.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignerFactory.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureValidator.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/DefaultSignatureValidatorFactory.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/RuntimeEnvironment.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/MalformedJwtException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/SignatureException.java
*
 /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/AbstractTextCodec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Collections.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/RsaSignatureValidator.java

* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/SignatureAlgorithm.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtParser.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacSigner.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJwt.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtHandlerAdapter.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/PrematureJwtException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/Header.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwsHeader.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/JwtBuilder.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/Jwt.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Strings.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/SignatureProvider.java
*
/jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/JwtMap.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/RequiredTypeException.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Objects.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/lang/Assert.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/Base64Codec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/crypto/MacProvider.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultJws.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/Base64UrlCodec.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/SigningKeyResolver.java
* /jjwt-0-9-1-sources-jar/io/jsonwebtoken/impl/DefaultClaims.java

1.299 tzdata 2022a-1.el8

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1.300 openssl 1.1.1k-6.el8_5

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<html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en" dir="ltr">
<head>
 <title>PostgreSQL JDBC License</title>
 <meta http-equiv="Content-Type" content="text/xhtml; charset=utf-8" />
 <meta name="description" content="The official site for the PostgreSQL JDBC Driver" />
 <meta name="copyright" content="The PostgreSQL Global Development Group" />

 <style type="text/css" media="screen" title="Normal Text">@import url("../media/css/base.css");</style>

 <link rel="shortcut icon" href="../media/favicon.ico" />

 <!--
 <script type="text/javascript">
  var _gaq = _gaq || [];
  _gaq.push(['_setAccount', 'UA-1345454-1']);
  _gaq.push(['_trackPageview']);
  (function() {
   var ga = document.createElement('script'); ga.type = 'text/javascript'; ga.async = true;
   ga.src = ('https:' == document.location.protocol ? 'https://ssl' : 'http://www') + '.google-analytics.com/ga.js';
   var
 s = document.getElementsByTagName('script')[0]; s.parentNode.insertBefore(ga, s);
   })();
 </script>
 -->
</head>

<body>
```

```
 <div id="pgContainerWrap">
  <div id="pgContainer">

   <span class="txtOffScreen"><a href="#pgContent" title="Skip site navigation" accesskey="1">Skip site navigation</a> (1)</span>
   <span class="txtOffScreen"><a href="#pgContentWrap" title="Skip section navigation" accesskey="2">Skip section navigation</a> (2)</span>

   <div id="pgHeaderContainer">

    <div id="pgSearch">

     <!-- Old pgjdbc form -->
     <form action="https://www.google.com/search" method="get">
      <input value="jdbc.postgresql.org" name="sitesearch" type="hidden" />
      <input id="q" name="q" type="text" size="20" maxlength="255" onfocus="if( this.value==this.defaultValue ) this.value='';" value="Google Search" accesskey="s" />
      <!-- <input onFocus="getBlank (this, 'Search the site with google');" size="25" name="q" id="query" type="text" value="Search the
 site with google">&amp;nbsp; -->
                  <input name="Search" value="Search" type="submit" />
     </form>

     <!-- New PostgreSQL form
     <form method="get" action="search/">
     <div>
      <h2 class="pgBlockHide"><label for="q">Search</label></h2>
      <input id="q" name="q" type="text" size="20" maxlength="255" onfocus="if( this.value==this.defaultValue ) this.value='';" value="Search" accesskey="s" />
      <input name="a" type="hidden" value="1"/>
      <input id="submit" name="submit" type="submit" value="Search" />
     </div>
     </form>
     -->

    </div> <!-- pgSearch -->
    <br />

    <div id="pgHeader">
     <div id="pgHeaderLogoLeft">
      <img alt="PostgreSQL" height="80" width="390" src="../media/img/layout/hdr_left3.png" usemap="#maplinks" />
      <map name="maplinks">
       <area shape="rect" coords="0,0,231,80" alt="PostgreSQL" href="https://postgresql.org" />
       <area shape="rect" coords="232,0,390,80" alt="PostgreSQL JDBC Driver" href="https://jdbc.postgresql.org" />
      </map>
     </div>
     <div id="pgHeaderLogoRight">
```

```
      <a href="https://postgresql.org">
       <img width="210" height="80" alt="The world's most advanced open source database."
src="../media/img/layout/hdr_right.png" />
      </a>
     </div>
    </div> <!-- pgHeader -->

    <div id="pgTopNav">
     <div id="pgTopNavLeft">
      <img width="7" style="height: 100%;" alt="" src="../media/img/layout/nav_lft.png" />
     </div>
     <div id="pgTopNavRight">
      <img width="7" style="height: 100%;" alt="" src="../media/img/layout/nav_rgt.png" />
     </div>
     <ul id="pgTopNavList">
      <li><a href="../index.html" title="Home">Home</a></li>
      <li><a href="../about/about.html" title="About">About</a></li>
      <li><a href="../download.html" title="Download">Download</a></li>
      <li><a href="../documentation/documentation.html" title="Documentation">Documentation</a></li>
      <li><a href="../community/community.html" title="Community">Community</a></li>
      <li><a
 href="../development/development.html" title="Development">Development</a></li>
     </ul>
    </div> <!-- pgTopNav -->
   </div> <!-- pgHeaderContainer -->

   <div id="pgContent">
    <div id="pgSideWrap">
     <div id="pgSideNav">
      <ul>
       <li><a href="about.html">About</a></li>
       <li><a href="license.html">License</a></li>
       <li><a href="extras.html">Extras</a></li>
      </ul>
     </div> <!-- pgSideNam -->
    </div> <!-- pgSideWrap -->

    <div id="pgContentWrap">
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     </p>
     <hr />
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#f9f9f9; padding: 1em; border: 1px solid #ddd">
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    <!-- pgContentWrap -->

   <br class="pgClearBoth" />
   <!-- pgContent -->
  <hr />

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   <!-- pgFooter -->
  <!-- pgContainer -->
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</body>
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1.301 zlib 1.2.12

1.301.1 Available under license :

* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.12, March 11th, 2022

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

The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
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1.302 nginx 1.14.1-9.module_el8.3.0+2165+af250afe.alma

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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
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Included for the use of the fix_strcasecmp.c module which works
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1.314 libtirpc 1.1.4-6.el8

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1.317 libsolv 0.7.20-1.el8

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1.318 shadow-utils 4.6-16.el8

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1.320 perl 1.38-421.el8

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1.321 iputils 20180629-9.el8

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(For example, a function in a library to compute square roots has

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

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If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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Any executables
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1.332 libsemanage-common 2.9-8.el8

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1.333 pam 1.3.1-16.el8

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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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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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When a program is linked with a library, whether statically or using
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We call this license the "Lesser" General Public License because it
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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

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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 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.

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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
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concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the
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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
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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
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must be distributed under the terms of Sections 1 and 2 above on a
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If distribution of object code is made by offering access to copy
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linked without the Library, or if the work is itself a library. The
threshold for this to be true is not precisely defined by law.

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

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:

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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.

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1.338 gpgme 1.13.1-11.el8

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#+TITLE: GPGME Python Bindings HOWTO Examples
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#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* Examples
:PROPERTIES:
:CUSTOM_ID: gpgme-python3-examples

:END:

The contents of this directory are the examples included in the /GNU Privacy Guard (GnuPG) Made Easy Python Bindings HOWTO/ file. Each script is explicitly for Python 3 and specifically for Python 3.4 or later.

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OGSma`YUs1h<_)(12:protected-at15:20130812T105134)))
cython
;;;; gpgme-package.lisp

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;;; Conventions:
;;;
;;; gpg-error is used for error handling.
;;;
;;; Standard I/O streams are used for input and output.

(defpackage #:gpgme
 (:use #:common-lisp #:cffi #:gpg-error)
  (:import-from #:trivial-garbage
          #:finalize)
 (:export #:check-version
   #:*version*
   #:context
   #:protocol
   #:armorp
   #:textmodep
   #:+include-certs-default+
   #:include-certs
   #:keylist-mode
   #:signers
   #:sig-notations
   #:with-context
   #:key-data

```
   #:get-key
   #:op-encrypt
   #:op-decrypt
   #:op-sign
   #:op-verify
   #:op-import
   #:op-export))
\input texinfo    @c -*- texinfo -*-
@c %**start of header
@setfilename index.info
@settitle GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top GNU Privacy Guard (GnuPG) Made Easy Python Bindings
@end ifnottex

@menu
* GPGME Python Bindings::

@detailmenu
--- The Detailed Node Listing ---

GPGME Python Bindings

* Contents::

@end detailmenu
@end menu

@node GPGME Python Bindings
@chapter GPGME Python Bindings

@menu
* Contents::
@end menu
```

@node Contents
@section Contents

@itemize
@item
@uref{short-history, A short history of the project}
@item
@uref{what-is-new, What's New}
@itemize
@item
@uref{maintenance-mode, Maintenance Mode} (from January, 2019)
@end itemize
@item
@uref{what-was-new, What Was New}
@item
@uref{gpgme-python-howto, GPGME Python Bindings HOWTO}
@end
itemize

@bye
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-05-12 Marcus Brinkmann <marcus@g10code.com>

* gpgme.texi (I/O Callback Example): Fix example code.

* gpgme.texi (Generating Keys): Fix OpenPGP parameters and reference
GPG and GPGSM manual.

2010-01-05 Werner Koch <wk@g10code.com>

* gpgme.texi (Changing Passphrases): New.

2009-07-21 Werner Koch <wk@g10code.com>

* uiserver.texi (UI Server Encrypt): Add --expect-sign option to
PREP_ENCRYPT.

2009-06-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Result Management): New section.

2009-06-16 Werner Koch <wk@g10code.com>

* gpgme.texi (Exporting Keys): Document gpgme_op_export_keys.
(Importing Keys): Document gpgme_op_import_keys.
(Data Buffer Meta-Data): Document URL encodings.

2009-05-28
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Document selftest error.
(Creating Contexts): Likewise.

2009-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
GPGME_ENCRYPT_NO_ENCRYPT_TO.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Information): Replace path by file_name.

2008-11-28 Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Change description of the return
value to match the code. Spotted by Colin Leroy.

2008-10-15 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Add option
--protocol to the SENDER command.

2008-07-17 Werner Koch <wk@g10code.com>

* module-overview.sk: New.

2008-07-04 Werner Koch <wk@g10code.com>

* gpgme.texi (Algorithms): Add a hint on symmetric only encryption.

2008-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancellation): Document gpgme_cancel_async.

2008-06-25
Werner Koch <wk@g10code.com>

* gpgme.texi (Listing Keys): Updated example to the current API.
Noted by Nico Schottelius.

2008-06-05 Werner Koch <wk@g10code.com>

* uiserver.texi (Miscellaneous UI Server Commands): Describe
START_CONFDIALOG.

2008-06-04 Werner Koch <wk@g10code.com>

* gpgme.texi: Use @copying command. Change license to
GPLv3. Include protocol specis from GpgOL and GPGEx. Minor
cleanups.

2008-03-11 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (File Based Data Buffers): Document the need for
blocking operations.
(Callback Based Data Buffers): Likewise.

2008-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Rename snippet function to
init_gpgme.
(I/O Callback Example): Call it here.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Document that data encoding affects some output data
objects now.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocols and Engines):
Document GPGME_PROTOCOL_UNKNOWN.

2007-09-11 Werner Koch <wk@g10code.com>

* gpgme.texi (I/O Callback Example): Typo fix.

2007-08-07 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Describe chain_model.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgme.texi (Library Version Check): Add remark that the socket
layer will get initialized.

2007-06-05 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Advanced Key Editing): New section.

2007-05-21 Werner Koch <wk@g10code.com>

* Makefile.am (online): New target.

2007-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Fix documentation of
gpgme_strerror_r.

2006-11-01 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Data Buffer I/O Operations): Fixed entry for
gpgme_data_seek: OFFSET is not a pointer; some s/whence/offset/.

2006-09-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Clarify that
gpgme_data_release_and_get_mem destroys DH unconditionally.

2005-03-24
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Make example code compatible
to W32 systems.

2006-06-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix inverted condition in
description.

2005-12-20 Werner Koch <wk@g10code.com>

* gpgme.texi (Verify): Document pka_trust.

2005-12-06 Werner Koch <wk@g10code.com>

* gpgme.texi (Key Management): Updated to match the fixes for
subkey fingerprints and theg secret flag.

2005-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Destroying Data Buffers): Document gpgme_free.

2005-10-02 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add the new member notations of

gpgme_sig_key_t.
(Key Listing Mode): Document GPGME_KEYLIST_MODE_SIG_NOTATIONS.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Enclose all return parameters of deftypefuns in
curly brackets.

* gpgme.texi (Signature Notation Data): New
section.
(Verify): Added more about the notation data structure.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Data Buffer I/O Operations, Data Buffer Meta-Data):
New subsections.

* gpgme.texi: Replace plaintext_filename with file_name.

* gpgme.texi (Key Management): Document is_qualified.

2005-07-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Decrypt): Add plaintext_filename to
gpgme_decrypt_result_t.
(Verify): Likewise for gpgme_verify_result_t.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Add information about new fields in
gpgme_signature_t.

* gpgme.texi (Decrypt): Add gpgme_recipient_t.

2005-05-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Fix return type of
gpgme_set_keylist_mode.
Reported by "Sergio" <ml_sergico@virgilio.it>.

2005-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Included Certificates): Document
GPGME_INCLUDE_CERTS_DEFAULT.

2005-01-12 Marcus
Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Configuration): New section.
(Crypto Engine): New subsection.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* lesser.texi (Library Copying): Change from @appendixsec to
@appendix.
* gpgme.texi (Features): Change reference to GPL to one to LGPL.

* Makefile.am: Change license to LGPL.
(gpgme_TEXINFOS): Replace gpl.texi with lesser.texi.

* gpgme.texi: Change license to LGPL (also for documentation of
GPGME's license).
* lesser.texi: New file.
* gpl.texi: File removed.

* gpgme.texi (Creating Contexts): Fix cut&paste error. Reported
by Noel Torres <envite@rolamasao.org>.

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgme_TEXINFOS): Remove fdl.texi.
* gpgme.texi: Do not include fdl.texi. Change license to GPL.
* fdl.texi: File removed.

2004-09-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Change type of keylist_mode in
gpgme_key_t to gpgme_keylist_mode_t.

2004-09-28
 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix last change.

2004-09-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document
GPG_ERR_NOT_IMPLEMENTED.

* gpgme.texi: Update copyright year for tex version.

2004-07-29 Moritz Schulte <moritz@g10code.com>

* gpgme.texi (Verify): Fix gpgme_get_key example (ancient
force_update argument was still there).

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Elaborate on the length restrictions
on search patterns.

* gpgme.texi (Decrypt and Verify): Document the NO_DATA error
code.
(Verify): Document the relationship between gpgme_op_verify_result
and the decrypt and verify operations.

2004-05-21 Marcus Brinkmann <marcus@g10code.de>

* gpgme.text (Verify): Document GPG_ERR_CERT_REVOKED status.

* gpgme.texi (Decrypt): Add note about new field wrong_key_usage
of gpgme_decrypt_result_t.

* gpgme.texi (Key Management): Add
note about new field
keylist_mode of gpgme_key_t.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Correct type of member wrong_key_usage.

2004-03-29 Moritz Schulte <moritz@duesseldorf.ccc.de>

* gpgme.texi (Verify): Fix type of gpgme_op_verify_result.
* gpgme.texi (Key Listing Mode): Typo fix.

2004-03-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Library Version Check): Fix the instruction when to
set the locale.

2004-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (I/O Callback Example Qt): New section by Marc Mutz.

2004-02-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (cancellation): New section.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgme.texi (Key Listing Mode): Doc KEYLIST_MODE_VALIDATE.

2004-02-06 Moritz Schulte <mo@g10code.com>

* gpgme.texi: A couple of small fixes regarding the Largfile
Support section.

2004-02-01 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Largefile Support): New
section.

2004-01-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Fix exportable field.

2003-12-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Rename member class in
gpgme_key_sig_t to sig_class.
(Creating a Signature): Likewise for gpgme_signature_t.

2003-12-23 Moritz Schulte <mo@g10code.com>

* gpgme.texi (Listing Keys): Minor clarification for
gpgme_get_key.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Signal Handling): New section.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Correct documentation on memory
synchronization requirement.

* gpgme.texi (Locale): New section.
(Multi Threading): Set locale in example.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add gpgme_strerror_r.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Update documentation.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

*

gpgme.texi (Header): We don't use the assuan namespace anymore.
Document new thread options.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Change type of member class
to unsigned int.

2003-08-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Get error code from SIG->status in the code
for gpgme_get_sig_status.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Add can_authenticate flag.

* gpgme.texi (Listing Keys): Document GPG_ERR_AMBIGUOUS_NAME for
gpgme_get_key.

2003-07-29 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (EXTRA_DIST): Remove variable.

* gpgme.texi (Encrypting a Plaintext): Bad passphrase is only
possible with symmetric encryption, change the wording to reflect
that.

* gpgme.texi (Creating a Signature): Document
GPG_ERR_UNUSABLE_SECKEY.

* gpgme.texi (Encrypting a Plaintext): Mention encrypt and sign
operations in result function.
(Creating
a Signature): Likewise.

2003-07-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Remove word duplication.
(Listing Keys): Remove mentioning of force argument.
(Verify): Don't mention r_stat. Fix some typos.
(Decrypt and Verify): Correct info how to get the result. Don't
mention r_stat.
(Manipulating Data Buffers): Fix documentation of return value.
(Listing Keys): Update examples.
(Decrypt): Result might also be available when operation failed.
(Verify): Result might also be available when operation failed.
All spotted by Stphane Corthsy.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Sources): Fix cut and paste error.

2003-07-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Management): Clarify difference between can_sign
and can_certify.
(Information About Keys): Likewise for GPGME_ATTR_CAN_SIGN and
GPGME_ATTR_CAN_CERTIFY.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Progress
Meter Callback): Change return type of
gpgme_progress_cb_t to void.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Add 2003 to copyright notice.

* gpgme.texi (Header): Fix name space documentation on
libgpg-error.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove reference to
gpgme_recipients_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Crypto Operations): Rename gpgme_invalid_user_id_t
to gpgme_invalid_key_t.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Change error codes to GPG_ERR_* variants.
(Error Handling): Rewritten.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Exporting Keys): Change and document prototypes.
Add new gpgme_op_export_ext and gpgme_op_export_ext_start
variants.
(Selecting Recipients): Section removed.
(Encrypting a Plaintext): Change prototypes and document the
changes.

2003-05-28 Marcus Brinkmann <marcus@g10code.de>

*
gpgme.texi (Exporting Keys): Change argument type from
gpgme_recipient_t to gpgme_user_id_t.
(Encrypting a Plaintext): Likewise.
(Selecting Recipients): Rewritten.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Protocol Selection): Do not use @acronym in @node
because that breaks texi2dvi.

* gpgme.texi (Passphrase Callback): Document new prototype.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Remove Gpgme as namespace prefix. Add
_GPGME to namespace prefix.
* gpgme.texi (Multi Threading): Add note about link order.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document what happens if key is not
found.

* gpgme.texi (Importing Keys): Fix cut and paste error.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Remove reference to
gpgme_get_op_info.
(Detailed Results): Subsection removed.

* gpgme.texi (Key Listing Mode): Add GPGME_KEYLIST_MODE_SIGS.
(Manipulating
Keys): Add obsoleteness note.
(Key Signatures): Likewise.
(Information About Keys): Likewise.
(Key Management): Add new data types GpgmeSubkey, GpgmeKeySig,
GpgmeUserID, and all the information about GpgmeKey.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Remove force_update argument from
gpgme_get_key.

* gpgme.texi (Trust Item Management): Add data members of
GpgmeTrustItem type.
(Information About Trust Items): Add note about obsoleteness.
(Manipulating Trust Items): Add gpgme_trust_item_ref and
gpgme_trust_item_unref.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Rewritten to take into account new and
deprecated functions and data types.

* gpgme.texi (Decrypt): Descript gpgme_op_decrypt_result and
GpgmeDecryptResult.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Add info about
GpgmeEncryptResult and gpgme_op_encrypt_result.

* gpgme.texi
(Creating a Signature): Add info about
GpgmeNewSignature, GpgmeSignResult and gpgme_op_sign_result.
(Crypto Operations): Add GpgmeInvalidUserID.
(Algorithms): New chapter.

* gpgme.texi (Deleting Keys): Document
GPGME_Ambiguous_Specification.
(Error Values): Remove GPGME_Invalid_Type and GPGME_Invalid_Mode.
Add GPGME_Unknown_Reason, GPGME_Not_Found,
GPGME_Ambiguous_Specification, GPGME_Wrong_Key_Usage,
GPGME_Key_Revoked, GPGME_Key_Expired, GPGME_No_CRL_Known,
GPGME_CRL_Too_Old, GPGME_Policy_Mismatch, GPGME_No_Secret_Key,
GPGME_Key_Not_Trusted, GPGME_Issuer_Missing, GPGME_Chain_Too_Long,
GPGME_Unsupported_Algorithm, GPGME_Sig_Expired,
GPGME_Bad_Signature, GPGME_No_Public_Key.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Change GPGME_IMPORT_PRIVATE to
GPGME_IMPORT_SECRET.

* gpgme.texi (Importing Keys): Remove note about gpgme_get_op_info.
(Detailed Results): Remove note about import.

* gpgme.texi (Importing Keys): Add documentation
for
GpgmeImportStatus, GpgmeImportResult and gpgme_op_import_result.

* gpgme.texi (Generating Keys): Fix documentation of public and
secret arguments.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document changed gpgme_op_genkey
and new gpgme_op_genkey_result function. Document
GpgmeGenKeyResult data type.

* gpgme.texi (Error Values): Rename GPGME_No_Passphrase to
GPGME_Bad_Passphrase.
* gpgme.texi (Decrypt): Likewise.
(Decrypt and Verify): Likewise.
(Creating a Signature): Likewise.
(Encrypting a Plaintext): Likewise.

* gpgme.texi (Error Values): Rename GPGME_No_Recipients to
GPGME_No_UserID and GPGME_Invalid_Recipient to
GPGME_Invalid_UserID.
(Encrypting a Plaintext): Likewise.

* gpgme.texi (Error Values): Remove GPGME_Busy and GPGME_No_Request.
(Listing Keys): Likewise.
(Listing Trust Items): Likewise.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Cancelling an Operation): Removed.
(Passphrase
Callback): Document new type for GpgmePassphraseCb.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Engine Information): Rename member part to
file_name.

* gpgme.texi (Protocols and Engines): Document
gpgme_get_protocol_name.

* gpgme.texi (Engine Information): Rewritten.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (I/O Callback Interface): Document new even
GPGME_EVENT_START.
(Waiting For Completion): Document new possible return values.
(I/O Callback Interface): Document return type of GpgmeIOCb.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Hooking Up Into Idle Time): Section removed.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Verify): Drop R_STAT argument in gpgme_op_verify.
 * gpgme.texi (Decrypt and Verify): Likewise for
 gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Information About Keys): Document that
 GPGME_ATTR_IS_SECRET is not representable
 as a string anymore.

2002-12-22 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Key Signatures): New section.
 (Listing Keys): Add gpgme_get_key.

2002-12-06 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Memory Based Data Buffers): New subsection.
 (File Based Data Buffers): Likewise.
 (Callback Based Data Buffers): Likewise.
 (Manipulating Data Buffers): Update interfaces. Add
 gpgme_data_seek.
 * gpgme.texi (Engine Version Check): Remove gpgme_check_engine.

2002-11-21 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Verify): Document the new interface.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Generating Keys): Document new argument to
 gpgme_op_genkey.

2002-11-05 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Verify): Fix prototype of gpgme_get_sig_key.
 Reported by Miguel Coca <e970095@zipi.fi.upm.es>.

2002-08-30 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Selecting Signers): Fix reference count.

2002-08-21
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Header): Document name space.

2002-08-20 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Document gpgme_op_import_ext.

* gpgme.texi (Importing Keys): Undocument EOF.

2002-08-14 Werner Koch <wk@gnupg.org>

* gpgme.texi (Information About Keys): Changed GPGME_ATTR_TYPE.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Say that secret keys might not be
deleted.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Document (badly) the new
key attributes.

* gpgme.texi (Manipulating Data Buffers): Mention that backend
tries to detect encoding automatically.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Run Control): Update this section.
(Waiting For Completion): Likewise for this subsection.
(Cancelling an Operation): Likewise for this subsection.
(Using External Event Loops): New subsection with several
subsubsections.

2002-06-28
Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Multi Threading): Remove item about the need to
synchronize anything against gpgme_wait (except gpgme_wait
itself).

2002-06-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Information About Keys): Fix documentation for IDX.
(Information About Trust Items): Likewise.

2002-06-26 Werner Koch <wk@gnupg.org>

 * gpgme.texi (Importing Keys): Document the return value -1 of
 gpgme_op_import.

2002-06-20 Werner Koch <wk@gnupg.org>

 * gpgme.texi (Verify): Explain the new whatidx variable.

2002-06-10 Werner Koch <wk@gnupg.org>

 * gpgme.texi (Verify): Document attribute GPGME_ATTR_ERRTOK.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Multi Threading): Document new autodetection.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

 * Makefile.am (DISTCLEANFILES): New variable.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi: Some typographical corrections
 throughout.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Using Automake): New section.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Multi Threading): Escape { and }.

2002-05-09 Marcus Brinkmann <marcus@g10code.de>

 * gpgme.texi (Overview): Replace note about thread-safeness.
 (Multi Threading): New section.

2002-05-03 Werner Koch <wk@gnupg.org>

 * gpgme.texi (Manipulating Data Buffers): Changed some data types
 to void*.
 (Protocol Selection): Added gpgme_get_protocol.
 (Verify): Updated to include the new attribute functions and
 status codes.

2002-04-27 Werner Koch <wk@gnupg.org>

* gpgme.texi (Manipulating Data Buffers): New type GpgmeDataEncoding.

2002-04-23 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Document that either return
argument can be NULL.
(Progress Meter Callback): Likewise.

2002-04-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase Callback): Fix small
typo. Document the
new function gpgme_get_passphrase_cb.
(Progress Meter Callback): Document the new function
gpgme_get_progress_cb.

2002-04-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Fix function name. Reported
by Wichert Ackerman <wichert@debian.org>.

2002-03-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (direntry): End index entry with a full stop.
Patch submitted by Jose Carlos Garcia Sogo <jsogo@debian.org>.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Fix syntax error in last change.

2002-03-08 Werner Koch <wk@gnupg.org>

* gpgme.texi (Detailed Results): Import does also return info.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document symmetric
encryption.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Error Strings): Add example.
* gpgme.texi (Listing Keys): Likewise.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

*

gpgme.texi (Information About Keys): Document GPGME_ATTR_EXPIRE.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Verify): Document verification of normal and
cleartext signatures.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Listing Keys): Document gpgme_op_keylist_ext_start.

2002-02-27 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
GPGME_Invalid_Recipients.
(Error Values): Likewise.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Encrypting a Plaintext): Document
gpgme_op_encrypt_sign and gpgme_op_encrypt_sign_start.

2002-02-25 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating a Signature): Add a note about
certificates to include.
(Included Certificates): New section.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Detailed Results): Remove literal tags.
(Generating Keys): Update documentation.

* gpgme.texi (Generating Keys):
Fix syntax error.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Waiting For Completion): Adjust doc to changes in
the code.

2002-02-06 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Key Listing Mode): Update documentation.

2002-01-31 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating Keys): Document error at creation

failure.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Deleting Keys): Document new error values.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Importing Keys): Add reference to gpgme_get_op_info.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Some spell checking.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: Add all the gpgme_op_*_start functions.
Fill the concept index with many, many entries.

2002-01-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Run Control): New section.
(Verify): Document gpgme_get_notation.
(More Information):
New section describing gpgme_get_op_info.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Passphrase callback): Change GpgmePassphraseCb's
R_HD type from void* to void**.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Creating data buffers): Change
gpgme_data_new_from_filepart's LENGTH type from off_t to size_t.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi (Generating keys): New subsection.
(Exporting keys): Likewise.
(Importing keys): Likewise.
(Deleting keys): Likewise.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

* gpgme.texi: g10Code -> g10 Code

* gpgme.texi (Top): Complete detailmenu.

* gpgme.texi: Convert embarrassing cruft to the real thing.

2002-01-16 Marcus Brinkmann <marcus@g10code.de>

* ChangeLog: New file.
* gpgme.texi: Likewise.
* gpl.texi: Likewise.
* fdl.texi: Likewise.
* Makefile.am (info_TEXINFOS): New variable.
(gpgme_TEXINFOS): Likewise.

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(21:protected-private-key(3:elg(1:p129:|B36I(s7}+ZJ/pvE;"tg7N ca"Gxvnyu&bB#h'7=89&oG
R<hO)(1:g1:)(1:y128:Ji]WU_UP}AQ\YMhAl|2e{_tcMNDg]{QnWsK 4pY{$bDCs)(9:protected25:openpgp-s2k3-
sha1-aes-cbc((4:sha18:JcE7:6452224)16: i[Q*vK)192:FJA!O!ZAF
biJ&Tsb!t
&9@R\~V+x>?sedDz-W(yqf?u^e?s1saV8<T0:tC5%ZMh?$|,y_e[1D)(12:protected-at15:20130812T105135)))
(private-key
(oid.1.2.840.113549.1.1.1
(n
#00e0ce96f90b6c9e02f3922beada93fe50a875eac6bcc18bb9a9cf2e84965caa2d1ff95a7f542465c6c0c19d276e4526ce
048868a7a914fd343cc3a87dd74291ffc565506d5bbb25cbac6a0e2dd1f8bcaab0d4a29c2f37c950f363484bf269f78914
40464baf79827e03a36e70b814938eebdc63e964247be75dc58b014b7ea251#)
(e #010001#)
(d
#046129F2489D71579BE0A75FE029BD6CDB574EBF57EA8A5B0FDA942CAB943B117D7BB95E5D28875E0F
9FC5FCC06A72F6D502464DABDED78EF6B716177B83D5BDC543DC5D3FED932E59F5897E92E6F58A0F334
24106A3B6FA2CBF877510E4AC21C3EE47851E97D12996222AC3566D4CCB0B83D164074ABF7DE655FC244
6DA1781#)
(p
#00e861b700e17e8afe6837e7512e35b6ca11d0ae47d8b85161c67baf64377213fe52d772f2035b3ca830af41d8a4120e
1c1c70d12cc22f00d28d31dd48a8d424f1#)
(q
#00f7a7ca5367c661f8e62df34f0d05c10c88e5492348dd7bddc942c9a8f369f935a07785d2db805215ed786e4285df16
58eed3ce84f469b81b50d358407b4ad361#)
(u
#304559a9ead56d2309d203811a641bb1a09626bc8eb36fffa23c968ec5bd891eebbafc73ae666e01ba7c8990bae06cc2

```
bbe10b75e69fcacb353a6473079d8e9b#)
 )
)
# libgpgme.vers - List of symbols to export.
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#
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#
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#-----------------------------------------------------------
# Please remember to add new functions also to gpgme.def
#-----------------------------------------------------------

GPGME_1.1 {
 global:
   gpgme_set_engine_info;

    gpgme_ctx_get_engine_info;
   gpgme_ctx_set_engine_info;

   gpgme_data_set_file_name;
   gpgme_data_get_file_name;
   gpgme_data_identify;

   gpgme_sig_notation_clear;
   gpgme_sig_notation_add;
   gpgme_sig_notation_get;

   gpgme_free;

   gpgme_op_getauditlog_start;
   gpgme_op_getauditlog;

   gpgme_conf_release;
   gpgme_conf_arg_new;
   gpgme_conf_arg_release;
```

gpgme_conf_opt_change;
gpgme_op_conf_load;
gpgme_op_conf_save;
gpgme_op_conf_dir;

gpgme_cancel_async;

gpgme_op_assuan_result;
gpgme_op_assuan_transact;
gpgme_op_assuan_transact_start;

gpgme_check_version_internal;

gpgme_io_read;
gpgme_io_write;

gpgme_result_ref;
gpgme_result_unref;

gpgme_op_import_keys;
gpgme_op_import_keys_start;
gpgme_op_export_keys;
gpgme_op_export_keys_start;

gpgme_op_assuan_transact_ext;

gpgme_wait_ext;

gpgme_op_vfs_mount_result;
gpgme_op_vfs_mount;
gpgme_op_vfs_create;

gpgme_key_from_uid;
gpgme_set_sub_protocol;
gpgme_get_sub_protocol;

gpgme_op_passwd_start;
gpgme_op_passwd;

gpgme_set_global_flag;

gpgme_io_writen;

gpgme_set_pinentry_mode;
gpgme_get_pinentry_mode;

gpgme_get_dirinfo;

```
  gpgme_op_spawn_start;
  gpgme_op_spawn;

  gpgme_set_offline;
  gpgme_get_offline;

  gpgme_set_status_cb;
  gpgme_get_status_cb;

  gpgme_pubkey_algo_string;
  gpgme_set_ctx_flag;
  gpgme_get_ctx_flag;
  gpgme_data_set_flag;

  gpgme_op_createkey_start;
  gpgme_op_createkey;
  gpgme_op_createsubkey_start;
  gpgme_op_createsubkey;
  gpgme_op_adduid_start;
  gpgme_op_adduid;
  gpgme_op_revuid_start;
  gpgme_op_revuid;
  gpgme_op_keysign_start;
  gpgme_op_keysign;
  gpgme_op_tofu_policy_start;
  gpgme_op_tofu_policy;
  gpgme_op_interact_start;
  gpgme_op_interact;

  gpgme_addrspec_from_uid;

  gpgme_set_sender;
  gpgme_get_sender;

  gpgme_op_query_swdb;
  gpgme_op_query_swdb_result;

   gpgme_op_set_uid_flag_start;
  gpgme_op_set_uid_flag;

  gpgme_op_decrypt_ext;
  gpgme_op_decrypt_ext_start;

  gpgme_data_new_from_estream;

};
```

```
GPGME_1.0 {
 global:
  gpgme_check_version;
  gpgme_get_engine_info;
  gpgme_engine_check_version;

  gpgme_err_code_from_errno;
  gpgme_err_code_to_errno;
  gpgme_err_make_from_errno;
  gpgme_error_from_errno;
  gpgme_strerror;
  gpgme_strerror_r;
  gpgme_strsource;

  gpgme_data_get_encoding;
  gpgme_data_new;
  gpgme_data_new_from_cbs;
  gpgme_data_new_from_fd;
  gpgme_data_new_from_file;
  gpgme_data_new_from_filepart;
  gpgme_data_new_from_mem;
  gpgme_data_new_from_stream;
  gpgme_data_read;
  gpgme_data_release;
  gpgme_data_release_and_get_mem;
  gpgme_data_seek;
  gpgme_data_set_encoding;
  gpgme_data_write;

  gpgme_get_protocol_name;
  gpgme_hash_algo_name;
  gpgme_pubkey_algo_name;

  gpgme_new;
  gpgme_get_armor;
  gpgme_get_include_certs;
  gpgme_get_io_cbs;
   gpgme_get_keylist_mode;
  gpgme_get_passphrase_cb;
  gpgme_get_progress_cb;
  gpgme_get_protocol;
  gpgme_get_textmode;
  gpgme_release;
  gpgme_set_armor;
  gpgme_set_include_certs;
  gpgme_set_io_cbs;
  gpgme_set_keylist_mode;
  gpgme_set_locale;
```

gpgme_set_passphrase_cb;
gpgme_set_progress_cb;
gpgme_set_protocol;
gpgme_set_textmode;
gpgme_signers_add;
gpgme_signers_clear;
gpgme_signers_count;
gpgme_signers_enum;

gpgme_key_ref;
gpgme_key_unref;
gpgme_key_release;

gpgme_trust_item_ref;
gpgme_trust_item_unref;

gpgme_cancel;
gpgme_op_card_edit;
gpgme_op_card_edit_start;
gpgme_op_decrypt;
gpgme_op_decrypt_result;
gpgme_op_decrypt_start;
gpgme_op_decrypt_verify;
gpgme_op_decrypt_verify_start;
gpgme_op_delete;
gpgme_op_delete_start;
gpgme_op_delete_ext;
gpgme_op_delete_ext_start;
gpgme_op_edit;
gpgme_op_edit_start;
gpgme_op_encrypt;
gpgme_op_encrypt_start;
gpgme_op_encrypt_ext;
gpgme_op_encrypt_ext_start;
gpgme_op_encrypt_sign;
gpgme_op_encrypt_sign_ext;
gpgme_op_encrypt_sign_start;
gpgme_op_encrypt_sign_ext_start;
gpgme_op_encrypt_result;

gpgme_op_export;
gpgme_op_export_ext;
gpgme_op_export_ext_start;
gpgme_op_export_start;
gpgme_op_genkey;
gpgme_op_genkey_result;
gpgme_op_genkey_start;
gpgme_get_key;

```
  gpgme_op_import;
  gpgme_op_import_result;
  gpgme_op_import_start;
  gpgme_op_keylist_end;
  gpgme_op_keylist_ext_start;
  gpgme_op_keylist_from_data_start;
  gpgme_op_keylist_next;
  gpgme_op_keylist_result;
  gpgme_op_keylist_start;
  gpgme_op_sign;
  gpgme_op_sign_result;
  gpgme_op_sign_start;
  gpgme_op_trustlist_end;
  gpgme_op_trustlist_next;
  gpgme_op_trustlist_start;
  gpgme_op_verify;
  gpgme_op_verify_result;
  gpgme_op_verify_start;
  gpgme_wait;

  gpgme_data_new_with_read_cb;
  gpgme_data_rewind;
  gpgme_get_sig_status;
   gpgme_get_sig_string_attr;
  gpgme_get_sig_ulong_attr;
  gpgme_get_sig_key;
  gpgme_key_get_string_attr;
  gpgme_key_get_ulong_attr;
  gpgme_key_sig_get_string_attr;
  gpgme_key_sig_get_ulong_attr;
  gpgme_op_import_ext;
  gpgme_trust_item_get_int_attr;
  gpgme_trust_item_get_string_attr;
  gpgme_trust_item_release;

  gpgme_err_code_from_syserror;
  gpgme_err_set_errno;

 local:
   *;

};
;;; -*- Mode: lisp -*-

;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME.
;;;
```

```
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;;; 02111-1307, USA.

(defpackage #:gpgme-system
 (:use #:common-lisp #:asdf))

(in-package #:gpgme-system)

(defsystem gpgme
 :description "GnuPG Made Easy."
 :author "g10 Code GmbH"
  :version "1.13.1"
 :licence "GPL"
 :defsystem-depends-on ("cffi-grovel")
 :depends-on ("cffi" "gpg-error" "trivial-garbage")
 :components ((:file "gpgme-package")
              (:cffi-grovel-file "gpgme-grovel"
               :depends-on ("gpgme-package"))
        (:file "gpgme"
  :depends-on ("gpgme-package" "gpgme-grovel"))))
-----BEGIN PGP PRIVATE KEY BLOCK-----

lQOYBFrsKEkBCADKw4Wt8J6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkXo7kWf
PTAtrV+REqF/o80dvYcdLvRsV21pvncZz/HXLu1yQ18mC3XObrKokbdgrTTKA5XE
BZkNsqyaMMJauT18H4hYkSg62/tTdO1cu/zWv/LFf7Xyn6+uA74ovXCJlO1s0N2c
PShtr98QRzPMf2owgVk37JnDNp4gGVDGHxSZOuUwxgYAZYnA8SFc+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/icxekeQCqpRJhLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxvbNELIBYICfABEBAAEAB/wLJ0gyMjs2fFfT83wM
5Lzz2yQIwV4t3bblBAujdHTqeN5Zmsm/oakFyjSokULK96Kv0R4ej9eoIgMFvxFk
HRkrggxTrbsNJ7I6QcKYHTPeIIj318ykNL6fj0WJUcdPIENukXl5jbqNyk3/4D2y
TTDySyq6jHTgvMH4K4KJUSpglvSJPntTk9RhuFGHAF+sNR9atygDYctAaERMRtSg
LCoSt/AoX5GRMlQjXT9oqQjwSQoZyF4s8HMC8wdTFIE/E0L4IVdHVp8sz2UszNtT
W/evmCA+KVruKjRH/Fhrq4hHkEamW28+j4L6uAyagONP7BONs+S5Oo2zTT9+tV2R
ILTZBADdgLuAgF6C5Lu9jCF6DfFgaT/uafMyQNkEGNlxOHMWHTgLHe475V2eG9gA
amd4yXKyEFKU1PWnvlGuicQSGdzVcwmq61msvXgYD0FK3LP3yWzKnE4X1tzrC9Vp
/uHJxKjewCuyt1f5in919v+T8TbUxBYKC0zX/qWtX+10cTx77QQA6leqhToJ95Yc
```

u4UBrKMEO+y2v8Svb3LG7yI5oY8tkw0EkJ/kpZ8xTAfZYCe6fXdvVE3PHg2lrxyc
Wv/EU3QY/qA3G82mbXYeJ2jNZaTNYo4MylMrt4Mx25x4ke7JlsE8SVrQ+4CrHkqp
OjSIa7fppLrQ78uW980AtN8NNQGrlTsD/A9aoA60Igxy1Q3K2uSyDCyjLknv57ym
ZSBD3/t7m0l6Q6gbdfhNGosT+Hd4y3actqEqzXZHW2VG4dKZ/wRNkxtSm9adU9vs
EHyzxjb6mKIH32zAG5TaFT20hC+NK6lsyHr9UE2ZrS6ma2sLxGW2O40hqNsdD+5m
NrqeBc2I/js1PMK0EHRlc3RAZXhhbXBsZS5vcmeJAVQEEwEIAD4WIQTUFzW5Ejb9
uIIEjFojAWNe7/DLBQUCWuwoSQIbAwUJA8JnAAULCQgHAgYVCgkICwIEFgIDAQIe
AQIXgAAKCRAjAWNe7/DLBf9kB/wOQ/S60HGwFq07W9N01HWULyhHKoMmcHL6rfZ6
4oDqLxolPSasz7WAMW1jN4qtWJ0mFzwO83V6kaBe+wF6Kqir6udFSBW9rPcFg6/V
ZXPltT0a6uacIHq6DyQ5iMW4YQWbVy9OR2rNGkYo1JCBR0XdRJYCSX3yB4TWv/eX
nZ37/WjmiTOIZh35rjs+NuU/S5JPDfAp2/k70DevQeBsv+UjVXjWpNTZmPbvDnd9
95uSmC6UY4hzyP84ORYMYn9n1QAR0goxDN6UunOf9Rlp1oMzdxMool/d1MlCxg2h
3jheuhv7lgUF4KpvHOuEPXQ7UO417E0TYcDZ1J8Nsv87SZeEnQOYBFrsKEkBCADj
oEBhG/QPqZHg8VyoD1xYRAWGxyDJkX/GrSs6yE+x2hk5FoQCajxKa/d4AVxOnJpd
whAfeXeSNaql5Ejgzax+Tdj9BV6vtGVJVv0pO7bgAiZxkA6RHxtNqhpPnPQoXvUz
kzpRgpuL+Nj4yIg7z1ITH6KQH4u5SI9vd+j/8i9Taz67pdZwuJjac8qBuJHjzAo1
bjYctFYUSG5pbmMQyNLySzgiNkFa4DajODlt3RuqVGP316Fk+Sy2+60tC/HlX8jg
MyMONfOGBQx6jk8tvAphS/LAqrrNepnagIyLUGKU+L8cB2g1PGGp2biBFWqZbudZ
oyRBet/0yH/zirBdQJw1ABEBAAEAB/4lN3gXOI4OuoOcsvHak4pebx61Mt0YP9cT
qZASIBqxok5x8E28pFh/tYfkYdqRCtdNYZOnxcEoUWh5j6nfwZkEnJ9P/T8GPNk7
pMKnKXmExi05b5uGHD8nU1rSbf/YkvAF0vpbxd4/RDxbbtQhbUwGzusSI+pBLM0w
5TreEB+vRGBc2gOvXXOtKLNEa7M9rH2EwbAkP3jOGGwgk6adxbQdBcRxq4merqhL
YrVz73bCj8TDc0fsNJyIaZZJ++ejfBFYavsF1pvx9z7FNFi8rSXoiB3SBtaWGfhr
bwNaMZrDc7TRIq/fgGaL6g//bzcWrr1YaHXZ10Bgx6UymDOlYkCpBADm0Hv46sPw
07SO8+IACcaQliOto1pndOPwTimCeo58/7rf8I2a5uuJloGrnPwAX65bKDnUALp6
X3lnXRNMhnB3Uewx4i00LQmjsxhJfQiGLpMv0j58tn64s7GqQzGVV1JKcQm992RV
jFOydyjZ+K4LGWEOITG/bZrMEVNGCM+OnQQA/Haz8xN0NFSlq7tyfFc0pkx/TiCX
xGfBqbO0wU2b5GMnZbY/06HENpidIzpa231VQaw5/nPTvfhlLKW1iGAkc148cX1q
lL9w2ksXuaHR3LXud2VcfVTIdxU/7h7u1dD/85+c0+7jlGObD9cXKxlM6OjpIJz1
l5/1h3C5S0TuxHkEAL/3BGihkhNfv1Xx0rWu0/732usX/nE/A9C26hGu41FUf3fp
0ilonKpKZUEwWt5hWSEFCSrznNVekiO0rxvuu3RVegvzThPNU4Pf4JZtJpRVhvUQ
d9ulxJw7V9rs75uNBatTNC0kXuGoXhehw4Bn93xa67gYGd3LfrH+oT0GCDpTSHCJ
ATwEGAEIACYWIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbDAUJA8JnAAAK
CRAjAWNe7/DLBf0pCACPp5hBuUWngu2Hqvg+tNiujfsiYzId3MffFxEk3CbXeHcJ
5F32NDJ9PYCnra4L8wSv+NZt9gIa8lFwoFSFQCjzH7KE86XcV3MhfdJTNb/+9CR7
Jq3e/4Iy0N5ip7PNYMCyakcAsxvsNCJKrSaDuYe/OAoTXRBtgRWE2uyT315em02L
kr+2Cc/Qk6H+vlNOHGRgnpI/OZZjnUuUfBUvMGHr1phW+y7aeymC9PnUGdViRdJe
23nntMSDA+0/I7ESO9JsWvJbyBmuiZpu9JjScOjYH9xpQLqRNyw4WHpZriN69F0t
9Mmd7bM1+UyPgbPEr0iWMeyctYsuOLeUyQKMscDT
=hkUm
-----END
PGP PRIVATE KEY BLOCK-----
#+TITLE: Stuff To Do
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}

```
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Latin Modern Roman}

* Project Task List
 :PROPERTIES:
 :CUSTOM_ID: task-list
 :END:

** DONE Documentation default format
  CLOSED: [2018-02-15 Thu 21:29]
  :PROPERTIES:
  :CUSTOM_ID: todo-docs-default
  :END:

  Decide on a default file format for documentation.  The two main
  contenders being Org Mode, the default for the GnuPG Project and
  reStructuredText, the default for Python projects.  A third option
  of DITA XML was considered due to a number of beneficial features
  it provides.

  The decision was made to use Org Mode in order to fully integrate
  with the rest of the GPGME and GnuPG documentation.  It is possible
  to produce reST versions via Pandoc and DITA XML can be reached
  through converting to either Markdown or XHTML
 first.


** TODO Documentation build systems
  :PROPERTIES:
  :CUSTOM_ID: todo-docs-build-systems
  :END:

Though Org Mode is being used for the default documentation format, it
still needs to end up as usable by end users.  So the Org Mode files
are used to produce the "source" files used by the two main contenders
for documenting the bindings: Texinfo and ReStructuredText/Docutils.


*** TODO Texinfo documentation
   :PROPERTIES:
   :CUSTOM_ID: todo-docs-build-texinfo
   :END:

Need to add all of Texinfo's ... special systems to make it do its
things.


*** TODO ReStructuredText documentation
   :PROPERTIES:
```

:CUSTOM_ID: todo-docs-build-docutils
:END:

Need to run Sphinx's quick start, add it to the requirements and tweak
the index page for the rst files to point to the HOWTO and other files.

It might just be easier to do all that in Org Mode and convert the
lot, then the Sphinx bits can be automated.

** STARTED Documentation HOWTO
:PROPERTIES:
:CUSTOM_ID: todo-docs-howto
:END:

- State "STARTED" from "TODO" [2018-03-08 Thu 13:59] \\
Started yesterday.
Write a HOWTO style guide for the current Python bindings.

*** DONE Start python bindings HOWTO
CLOSED: [2018-03-07 Wed 18:14]
:PROPERTIES:
:CUSTOM_ID: howto-start
:END:

*** STARTED Include certain specific instructions in the HOWTO
:PROPERTIES:
:CUSTOM_ID: howto-requests
:END:

Note: moved the S/MIME bits out to their own section of the TODO
list and may be served better by separate HOWTO documentation
anyway.

- State "STARTED" from "TODO" [2018-03-09 Fri 15:27]
Some functions can be worked out from the handful of examples
available, but many more can't and I've already begun receiving
requests for certain functions to be explained.

**** DONE Standard scenarios
CLOSED: [2018-03-19 Mon 12:34]
:PROPERTIES:
:CUSTOM_ID: howto-the-basics
:END:

- State "DONE" from "STARTED"

[2018-03-19 Mon 12:34] \\
All four of those are done.
- State "STARTED" from "TODO" [2018-03-09 Fri 15:26] \\
Began with the example code, now to add the text.
What everyone expects: encryption, decryption, signing and verifying.

**** STARTED Key control
:PROPERTIES:
:CUSTOM_ID: howto-key-control
:END:

- State "STARTED" from "TODO" [2018-03-19 Mon 12:35] \\
Generating keys and subkeys are done, but revocation is still to be done.
Generating keys, adding subkeys, revoking subkeys (and keeping
the cert key), adding and revoking UIDs, signing/certifying keys.

**** DONE More key control
CLOSED: [2018-03-19 Mon 12:36]
:PROPERTIES:
:CUSTOM_ID: howto-key-selection
:END:

- State "DONE" from "TODO" [2018-03-19 Mon 12:36] \\
Key selection, searching, matching and counting is done.
Selecting keys to encrypt to or manipulate in other ways (e.g. as
with key
control or the basics).

** TODO Documentation SWIG
:PROPERTIES:
:CUSTOM_ID: todo-docs-swig
:END:

Write documentation for the complete SWIG bindings demonstrating
the correspondence with GPGME itself.

Note: it is likely that this will be more in the nature of
something to be used in conjunction with the existing GPGME
documentation which makes it easier for Python developers to use.

** TODO GUI examples
:PROPERTIES:
:CUSTOM_ID: todo-gui-examples
:END:

Create some examples of using Python bindings in a GUI application
to either match or be similar to the old GTK2 examples available
with PyME.

** TODO Replace SWIG
:PROPERTIES:
:CUSTOM_ID: todo-replace-swig
:END:

Selecting SWIG for this project in 2002 was understandable and
effectively the only viable option. The options available now,
however, are significantly improved and some of those would resolve
a number of existing problems with using SWIG, particularly when
running code on both POSIX compliant and Windows platforms.

The long term goal is to replace SWIG by reimplementing the Python
bindings using a more suitable means of interfacing with the GPGME
C source code.

*** TODO Replacement for SWIG
:PROPERTIES:
:CUSTOM_ID: todo-replace-swig-replacement
:END:

Decide on a replacement for SWIG. Currently CFFI is looking like
the most viable candidate, but some additional testing and checks
are yet to be completed.

** TODO API for an API
:PROPERTIES:
:CUSTOM_ID: todo-api-squared
:END:

A C API like GPGME is not what most modern developers think of when
they hear the term API. Normally they think of something they can
interact with like a RESTful web API. Though RESTful is unlikely
given the nature of GPGME and the process of encryption, it may be
possible to provide a more familiar interface which can be utilised
by developers of other languages for which bindings are not
available
or for which it is too difficult to create proper
bindings.

** TODO S/MIME
 :PROPERTIES:
 :CUSTOM_ID: s-mime
 :END:

 Eventually add some of this, but the OpenPGP details are far more
 important at the moment.

* Project Task Details
 :PROPERTIES:
 :CUSTOM_ID: detailed-tasks
 :END:

** Working examples
 :PROPERTIES:
 :CUSTOM_ID: working-examples
 :END:

 The old GUI examples were unable to be retained since they depended
 on GTK2 and Python 2's integration with GTK2.

 Current GPGME examples so far only include command line tools or
 basic Python code for use with either Python 2.7 or Python 3.4 and
 above.

 Future GUI examples ought to utilise available GUI modules and
 libraries supported by Python 3. This may include Qt frameworks,
 Tkinter, GTK3 or something else entirely.

** Documentation
 :PROPERTIES:
 :CUSTOM_ID: documentation
 :END:

 The legacy documentation which no longer applies to the Python
 bindings has been
removed.

 Current and future documentation will adhere to the GnuPG standard
 of using Org Mode and not use the reStructuredText (reST) format
 more commonly associated with Python documentation. The reasons
 for this are that this project is best served as shipping with the
 rest of GPGME and the documentation ought to match that. There are
 also aspects of Org Mode's publishing features which are superior
 to the defaults of reST, including the capacity to generate fully
 validating strict XHTML output.

```
  If reST files are required at a later point for future inclusion
  with other Python packages, then that format can be generated from
  the .org files with Pandoc before being leveraged by either
  Docutils, Sphinx or something else.

  While there are some advanced typesetting features of reST which
  are not directly available to Org Mode, more often than not those
  features are best implemented with either HTML and CSS, with LaTeX
  to produce a PDF or
 via a number of XML solutions.  Both reST and
  Org Mode have multiple paths by which to achieve all of these.
from __future__ import absolute_import

import cython
import gpg

c = gpg.Context()
seckeys = c.keylist(pattern=None, secret=True)
pubkeys = c.keylist(pattern=None, secret=False)

seclist = list(seckeys)
secnum = len(seclist)

publist = list(pubkeys)
pubnum = len(publist)

if cython.compiled is True:
   cc = "Powered by Cython compiled C code."
else:
   cc = "Powered by Python."

print("""
   Number of secret keys:  {0}
   Number of public keys:  {1}

 {2}
""".format(secnum, pubnum, cc))
\input texinfo    @c -*- texinfo -*-
@c %**start of header
@setfilename maintenance-mode.info
@settitle Maintenance Mode
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title Maintenance Mode
```

@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top Maintenance Mode
@end ifnottex

@menu
* Maintenance Mode from 2019::

@detailmenu
--- The Detailed Node Listing ---

Maintenance Mode from 2019

* Maintainer from 2019 onward::
* Using the Python Bindings from 2019 and beyond::
* Documentation formats::

Documentation formats

* Cautionary Notes regarding Sphinx and EPUB::

@end detailmenu
@end menu

@node Maintenance Mode from 2019
@chapter Maintenance Mode from 2019

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian
 English, British English
@item xml:lang:
@tab en-AU, en-GB, en
@end multitable

From the beginning of 2019 the Python bindings to GPGME will enter maintenance mode, meaning that new features will not be added and only bug fixes and security fixes will be made. This also means that documentation beyond that existing at the end of 2018 will not be developed further except to correct errors.

Though use of these bindings appears to have been quite well received, there has been no indication of what demand there is, if any for either financial backing of the current Python bindings development or support contracts with g10code GmbH citing the necessity of including the bindings.

@menu
* Maintainer from 2019 onward::
* Using the Python Bindings from 2019 and beyond::
* Documentation formats::
@end menu

@node Maintainer from 2019 onward
@section Maintainer from 2019 onward

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding for that position, the amount of time I will be able to dedicate solely to this task will be limited and reduced to volunteered time. As with all volunteered time and effort in free software projects, this will be subject to numerous external imperatives.

@node Using the Python Bindings from 2019 and beyond
@section Using the Python Bindings from 2019 and beyond

For most, if not all, Python developers using these bindings; they will continue to just work the same as they always have. Expansions of GPGME itself are usually handled by SWIG with the existing code and thus bindings are generated properly when the bindings are installed alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new addition to GPGME, then that is a bug and thus subject to the maintenance mode provisions (i.e. it will be fixed following a bug report being raised and your humble author will need to remember where the timesheet template was filed, depending on how many years off such an event is).

All the GPGME functionality will continue to be accessible via the

lower level, dynamically generated methods which match the GPGME C
documentation. While the more intuitively Pythonic higher level layer
already covers the vast majority of functionality people require with
key generation, signatures, certifications (key signing), encryption,
decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking
because they are missing from GPGME itself (e.g. revoking keys via the
API) and in such cases they are usually deliberately excluded. More
discussion of these issues can be found in the archives of the
@uref{https://lists.gnupg.org/mailman/listinfo/gnupg-devel, gnupg-devel mailing list}.

Any features existing in the dynamically generated layer for which
people want a specific, higher level function included to make it more
Pythonic
 (e.g. to avoid needing to learn or memorise cryptographic
mode values or GnuPG status code numbers), would be a feature request
and @emph{not} a bug.

It is still worthwhile requesting it, but the addition of such a
feature would not be guaranteed and provided on a purely volunteer
basis. Expediting such a request would require funding that request.

Those with a commercial interest in expediting such a feature request
already know how to @uref{https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset, expedite it} (use the message field to state what
feature is being requested).

@node Documentation formats
@section Documentation formats

The documentation has been written in Org mode for GNU Emacs, with
both Texinfo and reStructuredText formats generated from that. The
Texinfo files are intended for use with the rest of the GnuPG
documentation; while the reStructuredText files are intended for use
with Docutils and Sphinx, as with other Python projects.

@menu
* Cautionary Notes
 regarding Sphinx and EPUB::
@end menu

@node Cautionary Notes regarding Sphinx and EPUB
@subsection Cautionary Notes regarding Sphinx and EPUB

Though Python's Docutils in conjunction with Sphinx is capable of
generating some very useful HTML sites, as proven by @uref{https://readthedocs.org/, Read the Docs} and
the @uref{https://docs.python.org/, Python documentation}, there are a number of output formats it does

not handle well. At the top of the list of things it manages to break
so atrociously as to be embarassing is the @uref{http://idpf.org/epub, EPUB 3} format.

The automatically generated EPUB of the CPython documentation always
contains hundreds of validation errors and even the modest amount of
documentation here @uref{https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-
python/rst/epub/GPGMEPythonBindings.epub, produced a file} with approximately thirty
validation errors. As the volume of documentation content increases,
so does the induced errors. Whereas Texinfo
 doesn't produce EPUB
output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a
@uref{https://dev.gnupg.org/maniphest/task/edit/form/4/, feature
request} case marked for @uref{https://dev.gnupg.org/p/BenM/, my} attention. The means of generating such
files flawlessly is already available, but is not yet part of the
GnuPG build system. Nor is it integrated with a means of converting
Org mode input files to the relevant base format automatically, as can
already be done when converting Org to reStructuredText or Org to
Texinfo. As a certain amount of work would be required to get it
done, there would need to be clear demand for that work to be done.

@bye
-----BEGIN PGP PUBLIC KEY BLOCK-----

mQENBFsMHecBCACqdJgqa+CeNYwPCK+MpOwAV6uFVjDyO2LmOs6+XfDWRBU/Zjtz
8zdYNKSbLjkWN4ujV5aiyA7MtEofszzYLEoKUt1wiDScHMpW8qmEFDvl9g26MeAV
rTno9D5KodHvEIs8wnrqBs8ix0WLbh6J1Dtt8HQgIbN+v3gaRQrgBFe6z2ZYpHHx
ZfOu3iFKlm2WE/NekRkvvFIo3ApGvRhGIYw6JMmugBlo7s5xosJK0I9dkPGlEEtt
aF1RkcMj8sWG9vHAXcjlGgFfXSN9YLppydXpkuZGm4+gjLB2a3rbQCZVFnxCyG4O
ybjkP8Jw6Udm89bK2ucYFfjdrmYn/nJqRxeNABEBAAG0I1Rlc3QgTm9Qcml2S2V5
IDxub2JvZHlAZXhhbXBsZS5vcmc+iQFOBBMBCAA4FiEE4Fmh4IZtMa4TEXCITZou
EzBBU9EFAlsMHecCGwMFCwkIBwIGFQoJCAsCBBYCAwECHgECF4AACgkQTZouEzBB
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0pp4+kDPZans3UDHbma1u/SFI4/y6isJiK94Bk5xp5YliLGnUceTjgDFe6lBhfQ1
zVWZC/NF3tPgbziIxXQTNt34nS+9dbV/QFDLW0POcN7C0jR/hgkBjMEH2PezWhSj
mL/yLfLfUYAoxVpXjfC5aPJKqw0tR7m5ibznjCphE+FUMRg8EOmJcg6soeJ5QspU
k2dPN3+Y0zCTNRgAHEI+yIQbM6pio6v2c+UCtT1QhW4xSI38/kcEG8QiM55r1TUy
FcWAY5n5t1nNZtMxxse3LqEon3rKiLkBDQRbDB3nAQgAqfAjSjcngERtM+ZYOwN0
QF2v2FuEuMe8mhju7Met7SN2zGv1LnjhTNshEa9IABEfjZirE2Tqx4xCWDwDedK4
u1ToFvcnuAMnq2O47Sh+eTypsf6WPFtPBWf6ctKY31hFXjgoyDBULBvl43XU/D9C
Mt7nsKDPYHVrrnge/qWPYVcb+cO0sSwNImMcwQSdTQ3VBq7MeNS9ZeBcXi+XCjhN
kjNum2AQqpkHHDQV7871yQ8RIILvZSSfkLb0/SNDU+bGaw2G3lcyKdIfZi2EWWZT
oCbH38I/+LV7nAEe4zFpHwW8X0Dkx2aLgxe6UszDH9L3eGhTLpJhOSiaanG+zZKm
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CgkQTZouEzBBU9H5TQgAolWvIsez/WW8N2tmZEnX0LOFNB+1S4L4X983njwNdoVI
w19pbj+8RIHF/H9kcPGi7jK96gvlykQn3uez/95D2AiRFW5KYdOouFisKgHpv8Ay
BrhclHv11yK+X/0iTD0scYaG7np5162xLkaxSO9hsz2fGv20RKaXCWkI69fWw0BR

XlI5pZh2YFei2ZhH/tIMIW65h3w0gtgaZBBdpZTOOW4zvghyN+0MSObqkI1BvUJu
caDFI4d6ZTmp5SY+pZyktZ4bg/vMH5VFxdIKgbLx9uVeTvOupvbAW0TNulYGUBQE
nm+S0zr3W18t64e4sS3oHse8zCqo1iiImpba6F1Oaw==
=y6DD
-----END
 PGP PUBLIC KEY BLOCK-----
00~0
 *H
0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 10
011203093638Z
021203093638Z0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 100
 *H
0l+Pu.\-ZT$e'nE&h4<}BePm[%j-/7PcHKi@FKy~npcd${]K~Q00U37Tq8_eK40U#037Tq8_eK4om0k10 UDE10U
Dsseldorf10U

g10 Code GmbH10UAegypten Project10Utest cert 10U00
 *H
l8gD Z
wYL,M'j
pk2pf|L ;Rl}#h$~O!9;3e\A'v&P^$'Oc.-TS~A>:fQY<
;;;; gpgme.lisp

;;; Copyright (C) 2006 g10 Code GmbH
;;;
;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL 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.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
;;; Lesser General Public License for more details.
;;;
;;; You should have received a copy of the GNU General Public License
;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

;;; TODO

```
;;; Set up the library.

(in-package :gpgme)

(deftype byte-array ()
 '(simple-array (unsigned-byte 8) (*)))

(deftype character-array ()
 '(simple-array character (*)))

;;;
 Debugging.

(defvar *debug* nil "If debugging output should be given or not.")

;;; Load the foreign library.

(define-foreign-library libgpgme
 (:unix "libgpgme.so")
 (t (:default "libgpgme")))

(use-foreign-library libgpgme)

;;; System dependencies.

; Access to ERRNO.
(defcfun ("strerror" c-strerror) :string
 (err :int))

(defun get-errno ()
 *errno*)

(defun set-errno (errno)
 (setf *errno* errno))

(define-condition system-error (error)
 ((errno :initarg :errno :reader system-error-errno))
 (:report (lambda (c stream)
     (format stream "System error: ~A: ~A"
      (system-error-errno c)
      (c-strerror (system-error-errno c)))))
 (:documentation "Signalled when an errno is encountered."))

; Needed to write passphrases.
(defcfun ("write" c-write) ssize-t
 (fd :int)
 (buffer :string) ; Actually :pointer, but we only need string.
 (size size-t))
```

```
(defun system-write (fd buffer size)
 (let ((res (c-write fd buffer size)))
   (when (< res 0) (error 'system-error
 :errno (get-errno)))
   res))

;;;
;;; C Interface Definitions
;;;

;;; Data Type Interface

;;; Some new data types used for easier translation.

;;; The number of include certs.  Translates to NIL for default.
(defctype cert-int-t
   (:wrapper :int
    :from-c translate-cert-int-t-from-foreign
    :to-c translate-cert-int-t-to-foreign))

;;; A string that may be NIL to indicate a null pointer.
(defctype string-or-nil-t
   (:wrapper :string
    :to-c translate-string-or-nil-t-to-foreign))

;;; Some opaque data types used by GPGME.

(defctype gpgme-ctx-t
   (:wrapper :pointer
    :to-c translate-gpgme-ctx-t-to-foreign)
 "The GPGME context type.")

(defctype gpgme-data-t
   (:wrapper :pointer
    :to-c translate-gpgme-data-t-to-foreign)
 "The GPGME data object type.")

;;; Wrappers for the libgpg-error library.

(defctype gpgme-error-t
   (:wrapper gpg-error::gpg-error-t
    :from-c translate-gpgme-error-t-from-foreign
    :to-c translate-gpgme-error-t-to-foreign)
 "The
 GPGME error type.")

(defctype gpgme-error-no-signal-t
```

```
  (:wrapper gpg-error::gpg-error-t
   :from-c translate-gpgme-error-no-signal-t-from-foreign)
 "The GPGME error type (this version does not signal conditions in translation.")

(defctype gpgme-err-code-t gpg-error::gpg-err-code-t
 "The GPGME error code type.")

(defctype gpgme-err-source-t gpg-error::gpg-err-source-t
 "The GPGME error source type.")

(defun gpgme-err-make (source code)
 "Construct an error value from an error code and source."
 (gpg-err-make source code))

(defun gpgme-error (code)
 "Construct an error value from an error code."
 (gpgme-err-make :gpg-err-source-gpgme code))

(defun gpgme-err-code (err)
 "Retrieve an error code from the error value ERR."
 (gpg-err-code err))

(defun gpgme-err-source (err)
 "Retrieve an error source from the error value ERR."
 (gpg-err-source err))

(defun gpgme-strerror (err)
 "Return a string containing a description of the error code."
 (gpg-strerror err))

(defun
 gpgme-strsource (err)
 "Return a string containing a description of the error source."
 (gpg-strsource err))

(defun gpgme-err-code-from-errno (err)
 "Retrieve the error code for the system error.  If the system error
  is not mapped, :gpg-err-unknown-errno is returned."
 (gpg-err-code-from-errno err))

(defun gpgme-err-code-to-errno (code)
 "Retrieve the system error for the error code.  If this is not a
  system error, 0 is returned."
 (gpg-err-code-to-errno code))

(defun gpgme-err-make-from-errno (source err)
 (gpg-err-make-from-errno source err))
```

```
(defun gpgme-error-from-errno (err)
 (gpg-error-from-errno err))

;;;

(defcenum gpgme-data-encoding-t
 "The possible encoding mode of gpgme-data-t objects."
 (:none 0)
 (:binary 1)
 (:base64 2)
 (:armor 3)
 (:url 4)
 (:urlesc 5)
 (:url0 6)
 (:mime 7))

;;;

(defcenum gpgme-pubkey-algo-t
 "Public key algorithms from libgcrypt."
 (:rsa 1)
 (:rsa-e 2)
 (:rsa-s 3)
 (:elg-e 16)
 (:dsa 17)
 (:ecc 18)
 (:elg 20)
  (:ecdsa 301)
 (:ecdh 302)
 (:eddsa 303))

(defcenum gpgme-hash-algo-t
 "Hash algorithms from libgcrypt."
 (:none 0)
 (:md5 1)
 (:sha1 2)
 (:rmd160 3)
 (:md2 5)
 (:tiger 6)
 (:haval 7)
 (:sha256 8)
 (:sha384 9)
 (:sha512 10)
 (:sha224 11)
 (:md4 301)
 (:crc32 302)
 (:crc32-rfc1510 303)
 (:crc24-rfc2440 304))
```

```
;;;

(defcenum gpgme-sig-mode-t
 "The available signature modes."
 (:none 0)
 (:detach 1)
 (:clear 2))

;;;

(defcenum gpgme-validity-t
 "The available validities for a trust item or key."
 (:unknown 0)
 (:undefined 1)
 (:never 2)
 (:marginal 3)
 (:full 4)
 (:ultimate 5))

;;;

(defcenum gpgme-protocol-t
 "The available protocols."
 (:openpgp 0)
 (:cms 1)
 (:gpgconf 2)
 (:assuan 3)
 (:g13 4)
 (:uiserver 5)
 (:spawn 6)
 (:default 254)
 (:unknown 255))

;;;

(defbitfield (gpgme-keylist-mode-t :unsigned-int)
 "The available keylist mode flags."
 (:local 1)
 (:extern 2)
 (:sigs 4)
 (:sig-notations)
 (:with-secret 16)
 (:with-tofu 32)
 (:ephemeral
 128)
 (:validate 256))
```

```
;;;

(defbitfield (gpgme-sig-notation-flags-t :unsigned-int)
 "The available signature notation flags."
 (:human-readable 1)
 (:critical 2))

(defctype gpgme-sig-notation-t
   (:wrapper :pointer
    :from-c translate-gpgme-sig-notation-t-from-foreign)
 "Signature notation pointer type.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-sig-notation-bitfield :unsigned-int)
 (:human-readable 1)
 (:critical 2))

(defcstruct gpgme-sig-notation
 "Signature notations."
 (next gpgme-sig-notation-t)
 (name :pointer)
 (value :pointer)
 (name-len :int)
 (value-len :int)
 (flags gpgme-sig-notation-flags-t)
 (bitfield gpgme-sig-notation-bitfield))

;;;

(defcenum gpgme-status-code-t
 "The possible status codes for the edit operation."
 (:eof 0)
 (:enter 1)
 (:leave 2)
 (:abort 3)
 (:goodsig 4)
 (:badsig 5)
 (:errsig 6)
 (:badarmor 7)
 (:rsa-or-idea 8)
 (:keyexpired 9)
 (:keyrevoked 10)
 (:trust-undefined 11)
 (:trust-never
 12)
 (:trust-marginal 13)
 (:trust-fully 14)
 (:trust-ultimate 15)
```

(:shm-info 16)
(:shm-get 17)
(:shm-get-bool 18)
(:shm-get-hidden 19)
(:need-passphrase 20)
(:validsig 21)
(:sig-id 22)
(:enc-to 23)
(:nodata 24)
(:bad-passphrase 25)
(:no-pubkey 26)
(:no-seckey 27)
(:need-passphrase-sym 28)
(:decryption-failed 29)
(:decryption-okay 30)
(:missing-passphrase 31)
(:good-passphrase 32)
(:goodmdc 33)
(:badmdc 34)
(:errmdc 35)
(:imported 36)
(:import-ok 37)
(:import-problem 38)
(:import-res 39)
(:file-start 40)
(:file-done 41)
(:file-error 42)
(:begin-decryption 43)
(:end-decryption 44)
(:begin-encryption 45)
(:end-encryption 46)
(:delete-problem 47)
(:get-bool 48)
(:get-line 49)
(:get-hidden 50)
(:got-it 51)
(:progress 52)
(:sig-created 53)
(:session-key 54)
(:notation-name 55)
(:notation-data 56)
(:policy-url 57)
(:begin-stream 58)
(:end-stream 59)
(:key-created 60)
(:userid-hint 61)
(:unexpected

```
 62)
 (:inv-recp 63)
 (:no-recp 64)
 (:already-signed 65)
 (:sigexpired 66)
 (:expsig 67)
 (:expkeysig 68)
 (:truncated 69)
 (:error 70)
 (:newsig 71)
 (:revkeysig 72)
 (:sig-subpacket 73)
 (:need-passphrase-pin 74)
 (:sc-op-failure 75)
 (:sc-op-success 76)
 (:cardctrl 77)
 (:backup-key-created 78)
 (:pka-trust-bad 79)
 (:pka-trust-good 80)
 (:plaintext 81)
 (:inv-sgnr 82)
 (:no-sgnr 83)
 (:success 84)
 (:decryption-info 85)
 (:plaintext-length 86)
 (:mountpoint 87)
 (:pinentry-launched 88)
 (:attribute 89)
 (:begin-signing 90)
 (:key-not-created 91)
 (:inquire-maxlen 92)
 (:failure 93)
 (:key-considered 94)
 (:tofu-user 95)
 (:tofu-stats 96)
 (:tofu-stats-long 97)
 (:notation-flags 98)
 (:decryption-compliance-mode 99)
 (:verification-compliance-mode 100))

;;;

(defctype gpgme-engine-info-t
   (:wrapper :pointer
    :from-c translate-gpgme-engine-info-t-to-foreign)
 "The engine information structure pointer type.")

(defcstruct gpgme-engine-info
```

```
  "Engine information."
 (next gpgme-engine-info-t)
 (protocol gpgme-protocol-t)
 (file-name :string)
 (version :string)
 (req-version :string)
 (home-dir :string))

;;;

(defctype gpgme-subkey-t
   (:wrapper :pointer
    :from-c translate-gpgme-subkey-t-from-foreign)
 "A subkey from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-subkey-bitfield :unsigned-int)
 "The subkey bitfield."
 (:revoked 1)
 (:expired 2)
 (:disabled 4)
 (:invalid 8)
 (:can-encrypt 16)
 (:can-sign 32)
 (:can-certify 64)
 (:secret 128)
 (:can-authenticate 256)
 (:is-qualified 512)
 (:is-cardkey 1024)
 (:is-de-vs 2048))

(defcstruct gpgme-subkey
 "Subkey from a key."
 (next gpgme-subkey-t)
 (bitfield gpgme-subkey-bitfield)
 (pubkey-algo gpgme-pubkey-algo-t)
 (length :unsigned-int)
 (keyid :string)
 (-keyid :char :count 17)
 (fpr :string)
 (timestamp :long)
 (expires :long))


(defctype gpgme-key-sig-t
   (:wrapper :pointer
    :from-c translate-gpgme-key-sig-t-from-foreign)
```

```
  "A signature on a user ID.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-sig-bitfield :unsigned-int)
 "The key signature bitfield."
 (:revoked 1)
 (:expired 2)
 (:invalid 4)
 (:exportable 16))

(defcstruct gpgme-key-sig
 "A signature on a user ID."
 (next gpgme-key-sig-t)
 (bitfield gpgme-key-sig-bitfield)
 (pubkey-algo gpgme-pubkey-algo-t)
 (keyid :string)
 (-keyid :char :count 17)
 (timestamp :long)
 (expires :long)
 (status gpgme-error-no-signal-t)
 (-class :unsigned-int)
 (uid :string)
 (name :string)
 (email :string)
 (comment :string)
 (sig-class :unsigned-int))


(defctype gpgme-user-id-t
   (:wrapper :pointer
    :from-c translate-gpgme-user-id-t-from-foreign)
 "A user ID from a key.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-user-id-bitfield :unsigned-int)
 "The user ID bitfield."
 (:revoked 1)
 (:invalid 2))

(defcstruct gpgme-user-id
 "A user ID from a key."
 (next
 gpgme-user-id-t)
 (bitfield gpgme-user-id-bitfield)
 (validity gpgme-validity-t)
 (uid :string)
 (name :string)
 (email :string)
```

```
 (comment :string)
 (signatures gpgme-key-sig-t)
 (-last-keysig gpgme-key-sig-t))


(defctype gpgme-key-t
   (:wrapper :pointer
    :from-c translate-gpgme-key-t-from-foreign
    :to-c translate-gpgme-key-t-to-foreign)
 "A key from the keyring.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-key-bitfield :unsigned-int)
 "The key bitfield."
 (:revoked 1)
 (:expired 2)
 (:disabled 4)
 (:invalid 8)
 (:can-encrypt 16)
 (:can-sign 32)
 (:can-certify 64)
 (:secret 128)
 (:can-authenticate 256)
 (:is-qualified 512))

(defcstruct gpgme-key
 "A signature on a user ID."
 (-refs :unsigned-int)
 (bitfield gpgme-key-bitfield)
 (protocol gpgme-protocol-t)
 (issuer-serial :string)
 (issuer-name :string)
 (chain-id :string)
 (owner-trust gpgme-validity-t)
 (subkeys gpgme-subkey-t)
 (uids gpgme-user-id-t)
 (-last-subkey gpgme-subkey-t)
  (-last-uid gpgme-user-id-t)
 (keylist-mode gpgme-keylist-mode-t))

;;;

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-passphrase-cb-t :pointer)

(defctype gpgme-progress-cb-t :pointer)
```

```
(defctype gpgme-edit-cb-t :pointer)


;;;
;;; Function Interface
;;;

;;; Context management functions.

(defcfun ("gpgme_new" c-gpgme-new) gpgme-error-t
 (ctx :pointer))

(defcfun ("gpgme_release" c-gpgme-release) :void
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_protocol" c-gpgme-set-protocol) gpgme-error-t
 (ctx gpgme-ctx-t)
 (proto gpgme-protocol-t))

(defcfun ("gpgme_get_protocol" c-gpgme-get-protocol) gpgme-protocol-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_get_protocol_name" c-gpgme-get-protocol-name) :string
 (proto gpgme-protocol-t))

(defcfun ("gpgme_set_armor" c-gpgme-set-armor) :void
 (ctx gpgme-ctx-t)
 (yes :boolean))

(defcfun ("gpgme_get_armor" c-gpgme-get-armor) :boolean
  (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_textmode" c-gpgme-set-textmode) :void
 (ctx gpgme-ctx-t)
 (yes :boolean))

(defcfun ("gpgme_get_textmode" c-gpgme-get-textmode) :boolean
 (ctx gpgme-ctx-t))

(defconstant +include-certs-default+ -256)

(defcfun ("gpgme_set_include_certs" c-gpgme-set-include-certs) :void
 (ctx gpgme-ctx-t)
 (nr-of-certs cert-int-t))

(defcfun ("gpgme_get_include_certs" c-gpgme-get-include-certs) cert-int-t
 (ctx gpgme-ctx-t))
```

```
(defcfun ("gpgme_set_keylist_mode" c-gpgme-set-keylist-mode) gpgme-error-t
 (ctx gpgme-ctx-t)
 (mode gpgme-keylist-mode-t))

(defcfun ("gpgme_get_keylist_mode" c-gpgme-get-keylist-mode)
   gpgme-keylist-mode-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_set_passphrase_cb" c-gpgme-set-passphrase-cb) :void
 (ctx gpgme-ctx-t)
 (cb gpgme-passphrase-cb-t)
 (hook-value :pointer))

(defcfun ("gpgme_get_passphrase_cb" c-gpgme-get-passphrase-cb) :void
 (ctx gpgme-ctx-t)
 (cb-p :pointer)
 (hook-value-p :pointer))

(defcfun ("gpgme_set_progress_cb"
 c-gpgme-set-progress-cb) :void
 (ctx gpgme-ctx-t)
 (cb gpgme-progress-cb-t)
 (hook-value :pointer))

(defcfun ("gpgme_get_progress_cb" c-gpgme-get-progress-cb) :void
 (ctx gpgme-ctx-t)
 (cb-p :pointer)
 (hook-value-p :pointer))

(defcfun ("gpgme_set_locale" c-gpgme-set-locale) gpgme-error-t
 (ctx gpgme-ctx-t)
 (category :int)
 (value string-or-nil-t))

(defcfun ("gpgme_ctx_get_engine_info" c-gpgme-ctx-get-engine-info)
   gpgme-engine-info-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_ctx_set_engine_info" c-gpgme-ctx-set-engine-info)
   gpgme-error-t
 (ctx gpgme-ctx-t)
 (proto gpgme-protocol-t)
 (file-name string-or-nil-t)
 (home-dir string-or-nil-t))

;;;
```

```
(defcfun ("gpgme_pubkey_algo_name" c-gpgme-pubkey-algo-name) :string
 (algo gpgme-pubkey-algo-t))

(defcfun ("gpgme_hash_algo_name" c-gpgme-hash-algo-name) :string
 (algo gpgme-hash-algo-t))

;;;

(defcfun ("gpgme_signers_clear" c-gpgme-signers-clear) :void
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_signers_add" c-gpgme-signers-add)
 gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t))

(defcfun ("gpgme_signers_enum" c-gpgme-signers-enum) gpgme-key-t
 (ctx gpgme-ctx-t)
 (seq :int))

;;;

(defcfun ("gpgme_sig_notation_clear" c-gpgme-sig-notation-clear) :void
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_sig_notation_add" c-gpgme-sig-notation-add) gpgme-error-t
 (ctx gpgme-ctx-t)
 (name :string)
 (value string-or-nil-t)
 (flags gpgme-sig-notation-flags-t))

(defcfun ("gpgme_sig_notation_get" c-gpgme-sig-notation-get)
   gpgme-sig-notation-t
 (ctx gpgme-ctx-t))

;;; Run Control.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-io-cb-t :pointer)

(defctype gpgme-register-io-cb-t :pointer)

(defctype gpgme-remove-io-cb-t :pointer)

(defcenum gpgme-event-io-t
 "The possible events on I/O event callbacks."
```

```
 (:start 0)
 (:done 1)
 (:next-key 2)
 (:next-trustitem 3))

(defctype gpgme-event-io-cb-t :pointer)

(defcstruct
 gpgme-io-cbs
 "I/O callbacks."
 (add gpgme-register-io-cb-t)
 (add-priv :pointer)
 (remove gpgme-remove-io-cb-t)
 (event gpgme-event-io-cb-t)
 (event-priv :pointer))

(defctype gpgme-io-cbs-t :pointer)

(defcfun ("gpgme_set_io_cbs" c-gpgme-set-io-cbs) :void
 (ctx gpgme-ctx-t)
 (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_get_io_cbs" c-gpgme-get-io-cbs) :void
 (ctx gpgme-ctx-t)
 (io-cbs gpgme-io-cbs-t))

(defcfun ("gpgme_wait" c-gpgme-wait) gpgme-ctx-t
 (ctx gpgme-ctx-t)
 (status-p :pointer)
 (hang :int))

;;; Functions to handle data objects.

;;; There is no support in CFFI to define callback C types and have
;;; automatic type checking with the callback definition.

(defctype gpgme-data-read-cb-t :pointer)
(defctype gpgme-data-write-cb-t :pointer)
(defctype gpgme-data-seek-cb-t :pointer)
(defctype gpgme-data-release-cb-t :pointer)

(defcstruct gpgme-data-cbs
 "Data callbacks."
 (read gpgme-data-read-cb-t)
 (write gpgme-data-write-cb-t)
 (seek gpgme-data-seek-cb-t)
  (release gpgme-data-release-cb-t))
```

```
(defctype gpgme-data-cbs-t :pointer
 "Data callbacks pointer.")

(defcfun ("gpgme_data_read" c-gpgme-data-read) ssize-t
 (dh gpgme-data-t)
 (buffer :pointer)
 (size size-t))

(defcfun ("gpgme_data_write" c-gpgme-data-write) ssize-t
 (dh gpgme-data-t)
 (buffer :pointer)
 (size size-t))

(defcfun ("gpgme_data_seek" c-gpgme-data-seek) off-t
 (dh gpgme-data-t)
 (offset off-t)
 (whence :int))

(defcfun ("gpgme_data_new" c-gpgme-data-new) gpgme-error-t
 (dh-p :pointer))

(defcfun ("gpgme_data_release" c-gpgme-data-release) :void
 (dh gpgme-data-t))

(defcfun ("gpgme_data_new_from_mem" c-gpgme-data-new-from-mem) gpgme-error-t
 (dh-p :pointer)
 (buffer :pointer)
 (size size-t)
 (copy :int))

(defcfun ("gpgme_data_release_and_get_mem" c-gpgme-data-release-and-get-mem)
   :pointer
 (dh gpgme-data-t)
 (len-p :pointer))

(defcfun ("gpgme_data_new_from_cbs" c-gpgme-data-new-from-cbs) gpgme-error-t
 (dh-p :pointer)
 (cbs gpgme-data-cbs-t)
  (handle :pointer))

(defcfun ("gpgme_data_new_from_fd" c-gpgme-data-new-from-fd) gpgme-error-t
 (dh-p :pointer)
 (fd :int))

(defcfun ("gpgme_data_new_from_stream" c-gpgme-data-new-from-stream)
   gpgme-error-t
 (dh-p :pointer)
 (stream :pointer))
```

```
(defcfun ("gpgme_data_get_encoding" c-gpgme-data-get-encoding)
  gpgme-data-encoding-t
 (dh gpgme-data-t))

(defcfun ("gpgme_data_set_encoding" c-gpgme-data-set-encoding)
  gpgme-error-t
 (dh gpgme-data-t)
 (enc gpgme-data-encoding-t))

(defcfun ("gpgme_data_get_file_name" c-gpgme-data-get-file-name) :string
 (dh gpgme-data-t))

(defcfun ("gpgme_data_set_file_name" c-gpgme-data-set-file-name) gpgme-error-t
 (dh gpgme-data-t)
 (file-name string-or-nil-t))

(defcfun ("gpgme_data_new_from_file" c-gpgme-data-new-from-file) gpgme-error-t
 (dh-p :pointer)
 (fname :string)
 (copy :int))

(defcfun ("gpgme_data_new_from_filepart" c-gpgme-data-new-from-filepart)
  gpgme-error-t
 (dh-p :pointer)
 (fname :string)
 (fp
 :pointer)
 (offset off-t)
 (length size-t))

;;; Key and trust functions.

(defcfun ("gpgme_get_key" c-gpgme-get-key) gpgme-error-t
 (ctx gpgme-ctx-t)
 (fpr :string)
 (key-p :pointer)
 (secret :boolean))

(defcfun ("gpgme_key_ref" c-gpgme-key-ref) :void
 (key gpgme-key-t))

(defcfun ("gpgme_key_unref" c-gpgme-key-unref) :void
 (key gpgme-key-t))

;;; Crypto operations.

(defcfun ("gpgme_cancel" c-gpgme-cancel) gpgme-error-t
```

```
 (ctx gpgme-ctx-t))

;;;

(defctype gpgme-invalid-key-t
   (:wrapper :pointer
    :from-c translate-gpgme-invalid-key-t-from-foreign)
 "An invalid key structure.")

(defcstruct gpgme-invalid-key
 "An invalid key structure."
 (next gpgme-invalid-key-t)
 (fpr :string)
 (reason gpgme-error-no-signal-t))

;;; Encryption.

(defcstruct gpgme-op-encrypt-result
 "Encryption result structure."
 (invalid-recipients gpgme-invalid-key-t))

(defctype gpgme-op-encrypt-result-t
   (:wrapper :pointer
    :from-c translate-gpgme-op-encrypt-result-t-from-foreign)
  "An encryption result structure.")

(defcfun ("gpgme_op_encrypt_result" c-gpgme-op-encrypt-result)
   gpgme-op-encrypt-result-t
 (ctx gpgme-ctx-t))

(defbitfield gpgme-encrypt-flags-t
 (:always-trust 1)
 (:no-encrypt-to 2)
 (:prepare 4)
 (:expect-sign 8)
 (:no-compress 16)
 (:symmetric 32)
 (:throw-keyids 64)
 (:wrap 128)
 (:want-address 256))

(defcfun ("gpgme_op_encrypt_start" c-gpgme-op-encrypt-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))
```

```
(defcfun ("gpgme_op_encrypt" c-gpgme-op-encrypt) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign_start" c-gpgme-op-encrypt-sign-start)
   gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))

(defcfun ("gpgme_op_encrypt_sign"
 c-gpgme-op-encrypt-sign) gpgme-error-t
 (ctx gpgme-ctx-t)
 (recp :pointer) ; Key array.
 (flags gpgme-encrypt-flags-t)
 (plain gpgme-data-t)
 (cipher gpgme-data-t))

;;; Decryption.

(defctype gpgme-recipient-t
   (:wrapper :pointer
    :from-c translate-gpgme-recipient-t-from-foreign)
 "A recipient structure.")

(defcstruct gpgme-recipient
 "Recipient structure."
 (next gpgme-recipient-t)
 (keyid :string)
 (-keyid :char :count 17)
 (pubkey-algo gpgme-pubkey-algo-t)
 (status gpgme-error-no-signal-t))

(defbitfield gpgme-op-decrypt-result-bitfield
 "Decryption result structure bitfield."
 (:wrong-key-usage 1)
 (:is-de-vs 2)
 (:is-mine 4))

(defcstruct gpgme-op-decrypt-result
 "Decryption result structure."
 (unsupported-algorithm :string)
 (bitfield gpgme-op-decrypt-result-bitfield)
```

```
 (recipients gpgme-recipient-t)
 (file-name :string))

(defctype gpgme-op-decrypt-result-t
   (:wrapper :pointer
    :from-c translate-gpgme-op-decrypt-result-t-from-foreign)
  "A decryption result structure.")

(defcfun ("gpgme_op_decrypt_result" c-gpgme-op-decrypt-result)
   gpgme-op-decrypt-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_decrypt_start" c-gpgme-op-decrypt-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt" c-gpgme-op-decrypt) gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify_start" c-gpgme-op-decrypt-verify-start)
   gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

(defcfun ("gpgme_op_decrypt_verify" c-gpgme-op-decrypt-verify) gpgme-error-t
 (ctx gpgme-ctx-t)
 (cipher gpgme-data-t)
 (plain gpgme-data-t))

;;; Signing.

(defctype gpgme-new-signature-t
   (:wrapper :pointer
    :from-c translate-gpgme-new-signature-t-from-foreign)
 "A new signature structure.")

(defcstruct gpgme-new-signature
 "New signature structure."
 (next gpgme-new-signature-t)
  (type gpgme-sig-mode-t)
 (pubkey-algo gpgme-pubkey-algo-t)
 (hash-algo gpgme-hash-algo-t)
 (-obsolete-class :unsigned-long)
 (timestamp :long)
```

```
 (fpr :string)
 (-obsolete-class-2 :unsigned-int)
 (sig-class :unsigned-int))

(defcstruct gpgme-op-sign-result
 "Signing result structure."
 (invalid-signers gpgme-invalid-key-t)
 (signatures gpgme-new-signature-t))

(defctype gpgme-op-sign-result-t
   (:wrapper :pointer
    :from-c translate-gpgme-op-sign-result-t-from-foreign)
 "A signing result structure.")

(defcfun ("gpgme_op_sign_result" c-gpgme-op-sign-result)
   gpgme-op-sign-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_sign_start" c-gpgme-op-sign-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (plain gpgme-data-t)
 (sig gpgme-data-t)
 (mode gpgme-sig-mode-t))

(defcfun ("gpgme_op_sign" c-gpgme-op-sign) gpgme-error-t
 (ctx gpgme-ctx-t)
 (plain gpgme-data-t)
 (sig gpgme-data-t)
 (mode gpgme-sig-mode-t))

;;; Verify.

(defbitfield (gpgme-sigsum-t :unsigned-int)
 "Flags
 used for the summary field in a gpgme-signature-t."
 (:valid #x0001)
 (:green #x0002)
 (:red #x0004)
 (:key-revoked #x0010)
 (:key-expired #x0020)
 (:sig-expired #x0040)
 (:key-missing #x0080)
 (:crl-missing #x0100)
 (:crl-too-old #x0200)
 (:bad-policy #x0400)
 (:sys-error #x0800)
 (:tofu-conflict #x1000))
```

```
(defctype gpgme-signature-t
  (:wrapper :pointer
   :from-c translate-gpgme-signature-t-from-foreign)
 "A signature structure.")

;; FIXME: Doesn't this depend on endianness?
(defbitfield (gpgme-signature-bitfield :unsigned-int)
 "The signature bitfield."
 (:wrong-key-usage 1)
 (:pka-trust 2)
 (:chain-model 4)
 (:is-de-vs 8))

(defcstruct gpgme-signature
 "Signature structure."
 (next gpgme-signature-t)
 (summary gpgme-sigsum-t)
 (fpr :string)
 (status gpgme-error-no-signal-t)
 (notations gpgme-sig-notation-t)
 (timestamp :unsigned-long)
 (exp-timestamp :unsigned-long)
 (bitfield gpgme-signature-bitfield)
 (validity gpgme-validity-t)
 (validity-reason
 gpgme-error-no-signal-t)
 (pubkey-algo gpgme-pubkey-algo-t)
 (hash-algo gpgme-hash-algo-t))

(defcstruct gpgme-op-verify-result
 "Verify result structure."
 (signatures gpgme-signature-t)
 (file-name :string))

(defctype gpgme-op-verify-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-verify-result-t-from-foreign)
 "A verify result structure.")

(defcfun ("gpgme_op_verify_result" c-gpgme-op-verify-result)
  gpgme-op-verify-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_verify_start" c-gpgme-op-verify-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (sig gpgme-data-t)
 (signed-text gpgme-data-t)
 (plaintext gpgme-data-t))
```

```
(defcfun ("gpgme_op_verify" c-gpgme-op-verify) gpgme-error-t
 (ctx gpgme-ctx-t)
 (sig gpgme-data-t)
 (signed-text gpgme-data-t)
 (plaintext gpgme-data-t))

;;; Import.

(defbitfield (gpgme-import-flags-t :unsigned-int)
 "Flags used for the import status field."
 (:new #x0001)
 (:uid #x0002)
 (:sig #x0004)
 (:subkey #x0008)
 (:secret
 #x0010))

(defctype gpgme-import-status-t
   (:wrapper :pointer
    :from-c translate-gpgme-import-status-t-from-foreign)
 "An import status structure.")

(defcstruct gpgme-import-status
 "New import status structure."
 (next gpgme-import-status-t)
 (fpr :string)
 (result gpgme-error-no-signal-t)
 (status :unsigned-int))

(defcstruct gpgme-op-import-result
 "Import result structure."
 (considered :int)
 (no-user-id :int)
 (imported :int)
 (imported-rsa :int)
 (unchanged :int)
 (new-user-ids :int)
 (new-sub-keys :int)
 (new-signatures :int)
 (new-revocations :int)
 (secret-read :int)
 (secret-imported :int)
 (secret-unchanged :int)
 (skipped-new-keys :int)
 (not-imported :int)
 (imports gpgme-import-status-t))
```

```
(defctype gpgme-op-import-result-t
  (:wrapper :pointer
   :from-c translate-gpgme-op-import-result-t-from-foreign)
 "An import status result structure.")

(defcfun ("gpgme_op_import_result" c-gpgme-op-import-result)
  gpgme-op-import-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_import_start" c-gpgme-op-import-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (keydata gpgme-data-t))

(defcfun ("gpgme_op_import" c-gpgme-op-import) gpgme-error-t
 (ctx gpgme-ctx-t)
 (keydata gpgme-data-t))

;;; Export.

(defcfun ("gpgme_op_export_start" c-gpgme-op-export-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string)
 (reserved :unsigned-int)
 (keydata gpgme-data-t))

(defcfun ("gpgme_op_export" c-gpgme-op-export) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string)
 (reserved :unsigned-int)
 (keydata gpgme-data-t))

;;; FIXME: Extended export interfaces require array handling.

;;; Key generation.

(defbitfield (gpgme-genkey-flags-t :unsigned-int)
 "Flags used for the key generation result bitfield."
 (:primary #x0001)
 (:sub #x0002)
 (:uid #x0004))

(defcstruct gpgme-op-genkey-result
 "Key generation result structure."
 (bitfield gpgme-genkey-flags-t)
 (fpr :string))

(defctype gpgme-op-genkey-result-t :pointer
 "A
```

```
 key generation result structure.")

(defcfun ("gpgme_op_genkey_result" c-gpgme-op-genkey-result)
   gpgme-op-genkey-result-t
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_genkey_start" c-gpgme-op-genkey-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (parms :string)
 (pubkey gpgme-data-t)
 (seckey gpgme-data-t))

(defcfun ("gpgme_op_genkey" c-gpgme-op-genkey) gpgme-error-t
 (ctx gpgme-ctx-t)
 (parms :string)
 (pubkey gpgme-data-t)
 (seckey gpgme-data-t))

;;; Key deletion.

(defcfun ("gpgme_op_delete_start" c-gpgme-op-delete-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t)
 (allow-secret :int))

(defcfun ("gpgme_op_delete" c-gpgme-op-delete) gpgme-error-t
 (ctx gpgme-ctx-t)
 (key gpgme-key-t)
 (allow-secret :int))

;;; FIXME: Add edit interfaces.

;;; Keylist interface.

(defbitfield (gpgme-keylist-flags-t :unsigned-int)
 "Flags used for the key listing result bitfield."
 (:truncated #x0001))

(defcstruct gpgme-op-keylist-result
 "Key listing result structure."
 (bitfield
 gpgme-keylist-flags-t))

(defctype gpgme-op-keylist-result-t :pointer
 "A key listing result structure.")

(defcfun ("gpgme_op_keylist_result" c-gpgme-op-keylist-result)
   gpgme-op-keylist-result-t
```

```
 (ctx gpgme-ctx-t))

(defcfun ("gpgme_op_keylist_start" c-gpgme-op-keylist-start) gpgme-error-t
 (ctx gpgme-ctx-t)
 (pattern :string)
 (secret_only :boolean))

;;; FIXME: Extended keylisting requires array handling.

(defcfun ("gpgme_op_keylist_next" c-gpgme-op-keylist-next) gpgme-error-t
 (ctx gpgme-ctx-t)
 (r-key :pointer))

(defcfun ("gpgme_op_keylist_end" c-gpgme-op-keylist-end) gpgme-error-t
 (ctx gpgme-ctx-t))

;;; Various functions.

(defcfun ("gpgme_check_version" c-gpgme-check-version) :string
 (req-version string-or-nil-t))

(defcfun ("gpgme_get_engine_info" c-gpgme-get-engine-info) gpgme-error-t
 (engine-info-p :pointer))

(defcfun ("gpgme_set_engine_info" c-gpgme-set-engine-info) gpgme-error-t
 (proto gpgme-protocol-t)
 (file-name string-or-nil-t)
 (home-dir
 string-or-nil-t))

(defcfun ("gpgme_engine_check_version" c-gpgme-engine-check-verson)
   gpgme-error-t
 (proto gpgme-protocol-t))

;;;
;;; L I S P   I N T E R F A C E
;;;

;;;
;;; Lisp type translators.
;;;

;;; Both directions.

;;; cert-int-t is a helper type that takes care of representing the
;;; default number of certs as NIL.

(defun translate-cert-int-t-from-foreign (value)
```

```
 (cond
   ((eql value +include-certs-default+) nil)
   (t value)))

(defun translate-cert-int-t-to-foreign (value)
 (cond
   (value value)
   (t +include-certs-default+)))

;;; string-or-nil-t translates a null pointer to NIL and vice versa.
;;; Translation from foreign null pointer already works as expected.

(defun translate-string-or-nil-t-to-foreign (value)
 (cond
   (value value)
   (t (null-pointer))))

;;; Output only.

;;; These type translators only convert from foreign type, because we
;;; never use these types in the other direction.

;;; Convert gpgme-engine-info-t linked lists into a
 list of property
;;; lists.  Note that this converter will automatically be invoked
;;; recursively.
;;;
;;; FIXME: Should we use a hash table (or struct, or clos) instead of
;;; property list, as recommended by the Lisp FAQ?

(defun translate-gpgme-engine-info-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((next protocol file-name version req-version home-dir)
     value (:struct gpgme-engine-info))
  (append (list protocol (list
        :file-name file-name
        :version version
        :req-version req-version
        :home-dir home-dir))
   next)))))

(defun translate-gpgme-invalid-key-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((next fpr reason)
```

```
    value (:struct gpgme-invalid-key))
  (append (list (list :fpr fpr
        :reason reason))
  next)))))

(defun translate-gpgme-op-encrypt-result-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots

  ((invalid-recipients)
    value (:struct gpgme-op-encrypt-result))
  (list :encrypt
       (list :invalid-recipients invalid-recipients))))))

(defun translate-gpgme-recipient-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next keyid pubkey-algo status)
    value (:struct gpgme-recipient))
  (append (list (list :keyid keyid
       :pubkey-algo pubkey-algo
       :status status))
  next)))))

(defun translate-gpgme-op-decrypt-result-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((unsupported-algorithm bitfield recipients file-name)
    value (:struct gpgme-op-decrypt-result))
  (list :decrypt (list :unsupported-algorithm unsupported-algorithm
        :bitfield bitfield
        :recipients recipients
        :file-name file-name))))))

(defun translate-gpgme-new-signature-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next
 type pubkey-algo hash-algo timestamp fpr sig-class)
    value (:struct gpgme-new-signature))
  (append (list (list :type type
       :pubkey-algo pubkey-algo
       :hash-algo hash-algo
       :timestamp timestamp
```

```
      :fpr fpr
      :sig-class sig-class))
  next)))))

(defun translate-gpgme-op-sign-result-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((invalid-signers signatures)
    value (:struct gpgme-op-sign-result))
  (list :sign (list :invalid-signers invalid-signers
     :signatures signatures))))))

(defun translate-gpgme-signature-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next summary fpr status notations timestamp
   exp-timestamp bitfield validity validity-reason
   pubkey-algo hash-algo)
    value (:struct gpgme-signature))
  (append (list (list :summary summary
      :fpr fpr
      :status status
      :notations notations
      :timestamp timestamp

    :exp-timestamp exp-timestamp
      :bitfield bitfield
      :validity validity
      :validity-reason validity-reason
      :pubkey-algo pubkey-algo))
  next)))))

(defun translate-gpgme-op-verify-result-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((signatures file-name)
    value (:struct gpgme-op-verify-result))
  (list :verify (list :signatures signatures
      :file-name file-name))))))

(defun translate-gpgme-import-status-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next fpr result status)
```

```
    value (:struct gpgme-import-status))
  (append (list (list :fpr fpr
        :result result
        :status status))
   next)))))

(defun translate-gpgme-op-import-result-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((considered no-user-id imported imported-rsa unchanged
   new-user-ids new-sub-keys new-signatures
   new-revocations
  secret-read secret-imported
   secret-unchanged skipped-new-keys not-imported
   imports)
     value (:struct gpgme-op-import-result))
   (list :verify (list :considered considered
        :no-user-id no-user-id
        :imported imported
        :imported-rsa imported-rsa
        :unchanged unchanged
        :new-user-ids new-user-ids
        :new-sub-keys new-sub-keys
        :new-signatures new-signatures
        :new-revocations new-revocations
        :secret-read secret-read
        :secret-imported secret-imported
        :secret-unchanged secret-unchanged
        :skipped-new-keys skipped-new-keys
        :not-imported not-imported
        :imports imports))))))

;;; Error handling.

;;; Use gpgme-error-no-signal-t to suppress automatic error handling
;;; at translation time.
;;;
;;; FIXME: Part of this probably should be in gpg-error!

(define-condition gpgme-error (error)
 ((value :initarg :gpgme-error :reader gpgme-error-value))
 (:report (lambda (c stream)

     (format stream "GPGME returned error: ~A (~A)"
       (gpgme-strerror (gpgme-error-value c))
       (gpgme-strsource (gpgme-error-value c)))))
 (:documentation "Signalled when a GPGME function returns an error."))
```

```
(defun translate-gpgme-error-t-from-foreign (value)
 "Raise a GPGME-ERROR if VALUE is non-zero."
 (when (not (eql (gpgme-err-code value) :gpg-err-no-error))
   (error 'gpgme-error :gpgme-error value))
 (gpg-err-canonicalize value))

(defun translate-gpgme-error-t-to-foreign (value)
 "Canonicalize the error value."
 (if (eql (gpgme-err-code value) :gpg-err-no-error)
     0
     (gpg-err-as-value value)))

(defun translate-gpgme-error-no-signal-t-from-foreign (value)
 "Canonicalize the error value."
 (gpg-err-canonicalize value))


;;; *INTERNAL* Lispy Function Interface that is still close to the C
;;; interface.

;;; Passphrase callback management.

;;; Maybe: Instead, use subclassing, and provide a customizable
;;; default implementation for ease-of-use.

(defvar
 *passphrase-handles* (make-hash-table)
 "Hash table with GPGME context address as key and the corresponding
  passphrase callback object as value.")

(defcallback passphrase-cb gpgme-error-t ((handle :pointer)
       (uid-hint :string)
       (passphrase-info :string)
       (prev-was-bad :boolean)
       (fd :int))
 (handler-case
     (let* ((passphrase-cb
       (gethash (pointer-address handle) *passphrase-handles*))
      (passphrase
       (cond
  ((functionp passphrase-cb)
   (concatenate 'string
        (funcall passphrase-cb uid-hint passphrase-info
          prev-was-bad)
        '(#\Newline)))
  (t (concatenate 'string passphrase-cb '(#\Newline)))))
     (passphrase-len (length passphrase))
```

```
      ;; FIXME: Could be more robust.
      (res (system-write fd passphrase passphrase-len)))
 (cond
   ((< res passphrase-len) ; FIXME: Blech.  A weak attempt to be robust.
    (gpgme-error :gpg-err-inval))
   (t (gpgme-error :gpg-err-no-error))))
   (gpgme-error (err)
 (gpgme-error-value err))
   (system-error (err) (gpgme-error-from-errno (system-error-errno err)))
   ;; FIXME: The original error gets lost here.
   (condition (err) (progn
        (when *debug*
     (format t "DEBUG: passphrase-cb: Unexpressable: ~A~%"
      err))
        (gpgme-error :gpg-err-general)))))

;;; CTX is a C-pointer to the context.
(defun gpgme-set-passphrase-cb (ctx cb)
 "Set the passphrase callback for CTX."
 (let ((handle (pointer-address ctx)))
   (cond
     (cb (setf (gethash handle *passphrase-handles*) cb)
   (c-gpgme-set-passphrase-cb ctx (callback passphrase-cb) ctx))
     (t (c-gpgme-set-passphrase-cb ctx (null-pointer) (null-pointer))
  (remhash handle *passphrase-handles*)))))

;;; Progress callback management.

;;; Maybe: Instead, use subclassing, and provide a customizable
;;; default implementation for ease-of-use.

(defvar *progress-handles* (make-hash-table)
 "Hash table with GPGME context address as key and the corresponding
  progress callback
 object as value.")

(defcallback progress-cb :void ((handle :pointer)
    (what :string)
    (type :int)
    (current :int)
    (total :int))
 (handler-case
     (let* ((progress-cb
       (gethash (pointer-address handle) *progress-handles*)))
 (funcall progress-cb what type current total))
   ;; FIXME: The original error gets lost here.
   (condition (err) (when *debug*
        (format t "DEBUG: progress-cb: Unexpressable: ~A~%"
```

```
        err)))))

;;; CTX is a C-pointer to the context.
(defun gpgme-set-progress-cb (ctx cb)
 "Set the progress callback for CTX."
 (let ((handle (pointer-address ctx)))
   (cond
     (cb (setf (gethash handle *progress-handles*) cb)
   (c-gpgme-set-progress-cb ctx (callback progress-cb) ctx))
     (t (c-gpgme-set-progress-cb ctx (null-pointer) (null-pointer))
  (remhash handle *progress-handles*)))))

;;; Context management.

(defun gpgme-new (&key (protocol :openpgp) armor textmode include-certs
    keylist-mode passphrase progress file-name
 home-dir)
 "Allocate a new GPGME context."
 (with-foreign-object (ctx-p 'gpgme-ctx-t)
   (c-gpgme-new ctx-p)
   (let ((ctx (mem-ref ctx-p 'gpgme-ctx-t)))
     ;;; Set locale?
     (gpgme-set-protocol ctx protocol)
     (gpgme-set-armor ctx armor)
     (gpgme-set-textmode ctx textmode)
     (when include-certs (gpgme-set-include-certs ctx include-certs))
     (when keylist-mode (gpgme-set-keylist-mode ctx keylist-mode))
     (gpgme-set-passphrase-cb ctx passphrase)
     (gpgme-set-progress-cb ctx progress)
     (gpgme-set-engine-info ctx protocol
        :file-name file-name :home-dir home-dir)
     (when *debug* (format t "DEBUG: gpgme-new: ~A~%" ctx))
     ctx)))

(defun gpgme-release (ctx)
 "Release a GPGME context."
 (when *debug* (format t "DEBUG: gpgme-release: ~A~%" ctx))
 (c-gpgme-release ctx))

(defun gpgme-set-protocol (ctx proto)
 "Set the protocol to be used by CTX to PROTO."
 (c-gpgme-set-protocol ctx proto))

(defun gpgme-get-protocol (ctx)
 "Get
 the protocol used with CTX."
 (c-gpgme-get-protocol ctx))
```

```
;;; FIXME: How to do pretty printing?
;;;
;;; gpgme-get-protocol-name

(defun gpgme-set-armor (ctx armor)
 "If ARMOR is true, enable armor mode in CTX, disable it otherwise."
(c-gpgme-set-armor ctx armor))

(defun gpgme-armor-p (ctx)
 "Return true if armor mode is set for CTX."
 (c-gpgme-get-armor ctx))

(defun gpgme-set-textmode (ctx textmode)
 "If TEXTMODE is true, enable text mode mode in CTX, disable it otherwise."
(c-gpgme-set-textmode ctx textmode))

(defun gpgme-textmode-p (ctx)
 "Return true if text mode mode is set for CTX."
 (c-gpgme-get-textmode ctx))

(defun gpgme-set-include-certs (ctx &optional certs)
 "Include up to CERTS certificates in an S/MIME message."
 (c-gpgme-set-include-certs ctx certs))

(defun gpgme-get-include-certs (ctx)
 "Return the number of certs to include in an S/MIME message,
  or NIL if the default is used."
 (c-gpgme-get-include-certs ctx))

(defun gpgme-get-keylist-mode (ctx)
  "Get the keylist mode in CTX."
 (c-gpgme-get-keylist-mode ctx))

(defun gpgme-set-keylist-mode (ctx mode)
 "Set the keylist mode in CTX."
 (c-gpgme-set-keylist-mode ctx mode))


;;; FIXME: How to handle locale?  cffi-grovel?

(defun gpgme-get-engine-info (&optional ctx)
 "Retrieve the engine info for CTX, or the default if CTX is omitted."
 (cond
   (ctx (c-gpgme-ctx-get-engine-info ctx))
   (t (with-foreign-object (info-p 'gpgme-engine-info-t)
  (c-gpgme-get-engine-info info-p)
  (mem-ref info-p 'gpgme-engine-info-t)))))
```

```
(defun gpgme-set-engine-info (ctx proto &key file-name home-dir)
 "Set the engine info for CTX, or the default if CTX is NIL."
 (cond
   (ctx (c-gpgme-ctx-set-engine-info ctx proto file-name home-dir))
   (t (c-gpgme-set-engine-info proto file-name home-dir))))

;;; FIXME: How to do pretty printing?
;;;
;;; gpgme_pubkey_algo_name, gpgme_hash_algo_name

(defun gpgme-set-signers (ctx keys)
 "Set the signers for the context CTX."
 (c-gpgme-signers-clear ctx)
  (dolist (key keys) (c-gpgme-signers-add ctx key)))

;;;

(defun gpgme-set-sig-notation (ctx notations)
 "Set the sig notation for the context CTX."
 (c-gpgme-sig-notation-clear ctx)
 (dolist (notation notations)
   (c-gpgme-sig-notation-add
    ctx (first notation) (second notation) (third notation))))

(defun gpgme-get-sig-notation (ctx)
 "Get the signature notation data for the context CTX."
 (c-gpgme-sig-notation-get ctx))

;;; FIXME: Add I/O callback interface, for integration with clg.

;;; FIXME: Add gpgme_wait?

;;; Streams
;;; -------
;;;
;;; GPGME uses standard streams.  You can define your own streams, or
;;; use the existing file or string streams.
;;;
;;; A stream-spec is either a stream, or a list with a stream as its
;;; first argument followed by keyword parameters: encoding,
;;; file-name.
;;;
;;; FIXME: Eventually, we should provide a class that can be mixed
;;; into stream classes and which provides accessors for encoding and
;;; file-names.  This interface
 should be provided in addition to the
;;; above sleazy interface, because the sleazy interface is easier to
;;; use (less typing), and is quite sufficient in a number of cases.
```

```
;;;
;;; For best results, streams with element type (unsigned-byte 8)
;;; should be used.  Character streams may work if armor mode is used.

;;; Do we need to provide access to GPGME data objects through streams
;;; as well?  It seems to me that specific optimizations, like
;;; directly writing to file descriptors, is better done by extending
;;; the sleazy syntax (stream-spec) instead of customized streams.
;;; Customized streams do buffering, and this may mess up things.  Mmh.

(defvar *data-handles* (make-hash-table)
 "Hash table with GPGME data user callback handle address as key
  and the corresponding stream as value.")

;;; The release callback removes the stream from the *data-handles*
;;; hash and releases the CBS structure that is used as the key in
;;; that hash.  It is implicitly invoked (through
 GPGME) by
;;; gpgme-data-release.
(defcallback data-release-cb :void ((handle :pointer))
 (unwind-protect (remhash (pointer-address handle) *data-handles*)
   (when (not (null-pointer-p handle)) (foreign-free handle))))

(defcallback data-read-cb ssize-t ((handle :pointer) (buffer :pointer)
                                   (size size-t))
 (when *debug* (format t "DEBUG: gpgme-data-read-cb: want ~A~%" size))
 (let ((stream (gethash (pointer-address handle) *data-handles*)))
   (cond
     (stream
      (let* ((stream-type (stream-element-type stream))
             (seq (make-array size :element-type stream-type))
             (read (read-sequence seq stream)))
        (cond
          ((equal stream-type '(unsigned-byte 8))
           (dotimes (i read)
             (setf (mem-aref buffer :unsigned-char i)
                   (aref (the byte-array seq) i))))
          ((eql stream-type 'character)
           (dotimes (i read)
             (setf (mem-aref buffer :unsigned-char
 i)
                   (char-code (aref (the character-array seq) i)))))
          (t
           (dotimes (i read)
             (setf (mem-aref buffer :unsigned-char i)
                   (coerce (aref seq i) '(unsigned-byte 8))))))
        (when *debug* (format t "DEBUG: gpgme-data-read-cb: read ~A~%" read))
        read))
```

```
    (t
     (set-errno +ebadf+)
     -1))))

(defcallback data-write-cb ssize-t ((handle :pointer) (buffer :pointer)
                                    (size size-t))
 (when *debug* (format t "DEBUG: gpgme-data-write-cb: want ~A~%" size))
 (let ((stream (gethash (pointer-address handle) *data-handles*)))
  (cond
   (stream
    (let* ((stream-type (stream-element-type stream))
           (seq (make-array size :element-type stream-type)))
      (cond
       ((equal stream-type '(unsigned-byte 8))
        (dotimes (i size)
          (setf (aref (the byte-array seq) i)
                (mem-aref buffer :unsigned-char i))))
        ((eql stream-type 'character)
        (dotimes (i size)
          (setf (aref (the character-array seq) i)
                (code-char (mem-aref buffer :unsigned-char i)))))
       (t
        (dotimes (i size)
          (setf (aref seq i)
                (coerce (mem-aref buffer :unsigned-char i) stream-type)))))
      (write-sequence seq stream)
      size))
    (t
     (set-errno +ebadf+)
     -1))))

;;; This little helper macro allows us to swallow the cbs structure by
;;; simply setting it to a null pointer, but still protect against
;;; conditions.
(defmacro with-cbs-swallowed ((cbs) &body body)
 `(let ((,cbs (foreign-alloc '(:struct gpgme-data-cbs))))
   (unwind-protect (progn ,@body)
     (when (not (null-pointer-p ,cbs)) (foreign-free ,cbs)))))

(defun gpgme-data-new (stream &key encoding file-name)
 "Allocate a new GPGME data object for STREAM."
 (with-foreign-object (dh-p 'gpgme-data-t)
   ;;; We allocate one CBS structure
 for each stream we wrap in a
   ;;; data object.  Although we could also share all these
   ;;; structures, as they contain the very same callbacks, we need a
   ;;; unique C pointer as handle anyway to look up the stream in the
   ;;; callback.  This is a convenient one to use.
```

```
  (with-cbs-swallowed (cbs)
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'read)
          (callback data-read-cb))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'write)
          (callback data-write-cb))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'seek)
          (null-pointer))
    (setf (foreign-slot-value cbs '(:struct gpgme-data-cbs) 'release)
          (callback data-release-cb))
    (c-gpgme-data-new-from-cbs dh-p cbs cbs)
    (let ((dh (mem-ref dh-p 'gpgme-data-t)))
 (when encoding (gpgme-data-set-encoding dh encoding))
 (when file-name (gpgme-data-set-file-name dh file-name))
 ;;; Install the stream into the hash table and
 swallow the cbs
       ;;; structure while protecting against any errors.
 (unwind-protect
      (progn
       (setf (gethash (pointer-address cbs) *data-handles*) stream)
       (setf cbs (null-pointer)))
  (when (not (null-pointer-p cbs)) (c-gpgme-data-release dh)))
 (when *debug* (format t "DEBUG: gpgme-data-new: ~A~%" dh))
 dh))))

;;; This function releases a GPGME data object.  It implicitly
;;; invokes the data-release-cb function to clean up associated junk.
(defun gpgme-data-release (dh)
 "Release a GPGME data object."
 (when *debug* (format t "DEBUG: gpgme-data-release: ~A~%" dh))
 (c-gpgme-data-release dh))

(defclass data ()
 (c-data)  ; The C data object pointer
 (:documentation "The GPGME data type."))

(defmethod initialize-instance :after ((data data) &key streamspec
                                       &allow-other-keys)
 (let ((c-data (if (listp streamspec)
                   (apply #'gpgme-data-new streamspec)
                   (gpgme-data-new streamspec)))
       (cleanup t))
  (unwind-protect
       (progn
         (setf (slot-value data 'c-data) c-data)
         (finalize data (lambda () (gpgme-data-release c-data)))
         (setf cleanup nil))
    (if cleanup (gpgme-data-release c-data)))))
```

```
(defun translate-gpgme-data-t-to-foreign (value)
 ;; Allow a pointer to be passed directly for the finalizer to work.
 (cond
   ((null value) (null-pointer))
   ((pointerp value) value)
   (t (slot-value value 'c-data))))

(defmacro with-gpgme-data ((dh streamspec) &body body)
 `(let ((,dh (make-instance 'data :streamspec ,streamspec)))
    ,@body))

(defun gpgme-data-get-encoding (dh)
 "Get the encoding associated with the data object DH."
 (c-gpgme-data-get-encoding dh))

(defun gpgme-data-set-encoding (dh encoding)
 "Set the encoding associated with the data object DH to ENCODING."
 (c-gpgme-data-set-encoding dh encoding))

(defun gpgme-data-get-file-name (dh)
 "Get the file name associated with the data object
 DH."
 (c-gpgme-data-get-file-name dh))

(defun gpgme-data-set-file-name (dh file-name)
 "Set the file name associated with the data object DH to FILE-NAME."
 (c-gpgme-data-set-file-name dh file-name))

;;; FIXME: Add key accessor interfaces.

(defun gpgme-get-key (ctx fpr &optional secret)
 "Get the key with the fingerprint FPR from the context CTX."
 (with-foreign-object (key-p 'gpgme-key-t)
   (c-gpgme-get-key ctx fpr key-p secret)
   (mem-ref key-p 'gpgme-key-t)))

(defun gpgme-key-ref (key)
 "Acquire an additional reference to the key KEY."
 (when *debug* (format t "DEBUG: gpgme-key-ref: ~A~%" key))
 (c-gpgme-key-ref key))

(defun gpgme-key-unref (key)
 "Release a reference to the key KEY."
 (when *debug* (format t "DEBUG: gpgme-key-unref: ~A~%" key))
 (c-gpgme-key-unref key))

;;; FIXME: We REALLY need pretty printing for keys and all the other
;;; big structs.
```

```
;;; Various interfaces.

(defun gpgme-check-version (&optional req-version)
 (c-gpgme-check-version req-version))

;;;
;;;
 The *EXPORTED* CLOS interface.
;;;

;;; The context type.

;;; We wrap the C context pointer into a class object to be able to
;;; stick a finalizer on it.

(defclass context ()
 (c-ctx  ; The C context object pointer.
  signers ; The list of signers.
  sig-notation) ; The list of signers.
 (:documentation "The GPGME context type."))

(defmethod initialize-instance :after ((ctx context) &rest rest
         &key &allow-other-keys)
 (let ((c-ctx (apply #'gpgme-new rest))
 (cleanup t))
   (unwind-protect
  (progn (setf (slot-value ctx 'c-ctx) c-ctx)
  (finalize ctx (lambda () (gpgme-release c-ctx)))
  (setf cleanup nil))
     (if cleanup (gpgme-release c-ctx)))))

(defun translate-gpgme-ctx-t-to-foreign (value)
 ;; Allow a pointer to be passed directly for the finalizer to work.
 (if (pointerp value) value (slot-value value 'c-ctx)))

(defmacro context (&rest rest)
 "Create a new GPGME context."
 `(make-instance 'context ,@rest))

;;; The context type: Accessor
 functions.

;;; The context type: Accessor functions: Protocol.

(defgeneric protocol (ctx)
 (:documentation "Get the protocol of CONTEXT."))
```

```
(defmethod protocol ((ctx context))
 (gpgme-get-protocol ctx))

(defgeneric (setf protocol) (protocol ctx)
 (:documentation "Set the protocol of CONTEXT to PROTOCOL."))

;;; FIXME: Adjust translator to reject invalid protocols.  Currently,
;;; specifying an invalid protocol throws a "NIL is not 32 signed int"
;;; error.  This is suboptimal.
(defmethod (setf protocol) (protocol (ctx context))
 (gpgme-set-protocol ctx protocol))

;;; The context type: Accessor functions: Armor.
;;; FIXME: Is it good style to make foop setf-able?  Or should it be
;;; foo/foop for set/get?

(defgeneric armorp (ctx)
 (:documentation "Get the armor flag of CONTEXT."))

(defmethod armorp ((ctx context))
 (gpgme-armor-p ctx))

(defgeneric (setf armorp) (armor ctx)
 (:documentation "Set the armor flag of CONTEXT to ARMOR."))

(defmethod (setf armorp) (armor (ctx
 context))
 (gpgme-set-armor ctx armor))

;;; The context type: Accessor functions: Textmode.
;;; FIXME: Is it good style to make foop setf-able?  Or should it be
;;; foo/foop for set/get?

(defgeneric textmodep (ctx)
 (:documentation "Get the text mode flag of CONTEXT."))

(defmethod textmodep ((ctx context))
 (gpgme-textmode-p ctx))

(defgeneric (setf textmodep) (textmode ctx)
 (:documentation "Set the text mode flag of CONTEXT to TEXTMODE."))

(defmethod (setf textmodep) (textmode (ctx context))
 (gpgme-set-textmode ctx textmode))

;;; The context type: Accessor functions: Include Certs.

(defgeneric include-certs (ctx)
```

```
 (:documentation "Get the number of included certificates in an
                  S/MIME message, or NIL if the default is used."))

(defmethod include-certs ((ctx context))
 (gpgme-get-include-certs ctx))

(defgeneric (setf include-certs) (certs ctx)
 (:documentation "Return the number of certificates to include in an
                  S/MIME message, or
 NIL if the default is used."))

(defmethod (setf include-certs) (certs (ctx context))
 (gpgme-set-include-certs ctx certs))

;;; The context type: Accessor functions: Engine info.

(defgeneric engine-info (ctx)
 (:documentation "Retrieve the engine info for CTX."))

(defmethod engine-info ((ctx context))
 (gpgme-get-engine-info ctx))

(defgeneric (setf engine-info) (info ctx)
 (:documentation "Set the engine info for CTX."))

(defmethod (setf engine-info) (info (ctx context))
 (dolist (proto '(:openpgp :cms))
   (let ((pinfo (getf info proto)))
     (when pinfo
 (gpgme-set-engine-info ctx proto :file-name (getf pinfo :file-name)
          :home-dir (getf pinfo :home-dir))))))

;;; The context type: Accessor functions: Keylist mode.

(defgeneric keylist-mode (ctx)
 (:documentation "Get the keylist mode of CTX."))

(defmethod keylist-mode ((ctx context))
 (gpgme-get-keylist-mode ctx))

(defgeneric (setf keylist-mode) (mode ctx)
 (:documentation "Set the keylist mode of CTX to MODE."))

(defmethod
 (setf keylist-mode) (mode (ctx context))
 (gpgme-set-keylist-mode ctx mode))

;;; The context type: Accessor functions: Signers.
```

```
(defgeneric signers (ctx)
 (:documentation "Get the signers of CTX."))

(defmethod signers ((ctx context))
 (slot-value ctx 'signers))

(defgeneric (setf signers) (signers ctx)
 (:documentation "Set the signers of CTX to SIGNERS."))

(defmethod (setf keylist-mode) (signers (ctx context))
 (gpgme-set-signers ctx signers)
 (setf (slot-value ctx 'signers) signers))

;;; The context type: Accessor functions: Sig notations.

(defgeneric sig-notations (ctx)
 (:documentation "Get the signature notations of CTX."))

(defmethod sig-notations ((ctx context))
 (slot-value ctx 'signers))

(defgeneric (setf sig-notations) (notations ctx)
 (:documentation "Set the signatire notations of CTX to NOTATIONS."))

(defmethod (setf sig-notations) (notations (ctx context))
 (gpgme-set-signers ctx notations)
 (setf (slot-value ctx 'notations) notations))

;;;
 The context type: Support macros.

(defmacro with-context ((ctx &rest rest) &body body)
 `(let ((,ctx (make-instance 'context ,@rest)))
   ,@body))

;;; The key type.

(defclass key ()
 (c-key)  ; The C key object pointer.
 (:documentation "The GPGME key type."))

;;; In the initializer, we swallow the c-key argument.
(defmethod initialize-instance :after ((key key) &key c-key
         &allow-other-keys)
 (setf (slot-value key 'c-key) c-key)
 (finalize key (lambda () (gpgme-key-unref c-key))))
```

```
(defun translate-gpgme-key-t-from-foreign (value)
 (when *debug* (format t "DEBUG: import key: ~A~%" value))
 (make-instance 'key :c-key value))

(defun translate-gpgme-key-t-to-foreign (value)
 ;; Allow a pointer to be passed directly for the finalizer to work.
 (if (pointerp value) value (slot-value value 'c-key)))

(defmethod print-object ((key key) stream)
 (print-unreadable-object (key stream :type t :identity t)
   (format stream "~s" (fpr key))))

;;; The key type:
 Accessor functions.

;;; FIXME: The bitfield and flags contain redundant information at
;;; this point.  FIXME: Deal nicer with zero-length name (policy url)
;;; and zero length value (omit?) and human-readable (convert to string).
;;; FIXME: Turn binary data into sequence or vector or what it should be.
;;; FIXME: Turn the whole thing into a hash?
(defun translate-gpgme-sig-notation-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((next name value name-len value-len flags bitfield)
     value (:struct gpgme-sig-notation))
  (append (list (list
   :name name
   :value value
   :name-len name-len
   :value-len value-len
   :flags flags
   :bitfield bitfield))
   next)))))

;;; FIXME: Deal nicer with timestamps.  bitfield field name?
(defun translate-gpgme-subkey-t-from-foreign (value)
 (cond
   ((null-pointer-p value) nil)
   (t (with-foreign-slots
    ((next bitfield pubkey-algo length keyid fpr timestamp expires)
     value (:struct gpgme-subkey))

 (append (list (list
   :bitfield bitfield
   :pubkey-algo pubkey-algo
   :length length
   :keyid keyid
```

```
  :fpr fpr
  :timestamp timestamp
  :expires expires))
  next)))))

(defun translate-gpgme-key-sig-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next bitfield pubkey-algo keyid timestamp expires status
   uid name email comment sig-class)
    value (:struct gpgme-key-sig))
  (append (list (list
  :bitfield bitfield
  :pubkey-algo pubkey-algo
  :keyid keyid
  :timestamp timestamp
  :expires expires
  :status status
  :uid uid
  :name name
  :email email
  :comment comment
  :sig-class sig-class))
  next)))))

(defun translate-gpgme-user-id-t-from-foreign (value)
 (cond
  ((null-pointer-p value) nil)
  (t (with-foreign-slots
   ((next bitfield validity uid name email comment signatures)
    value (:struct gpgme-user-id))
  (append (list (list
  :bitfield bitfield
  :validity validity
  :uid uid
  :name
 name
  :email email
  :comment comment
  :signatures signatures))
  next)))))

(defun key-data (key)
 (with-slots (c-key) key
  (with-foreign-slots
 ((bitfield protocol issuer-serial issuer-name chain-id
    owner-trust subkeys uids keylist-mode)
```

```
 c-key (:struct gpgme-key))
   (list
    :bitfield bitfield
    :protocol protocol
    :issuer-serial issuer-serial
    :issuer-name issuer-name
    :chain-id chain-id
    :owner-trust owner-trust
    :subkeys subkeys
    :uids uids
    :keylist-mode keylist-mode))
  ))


(defgeneric fpr (key)
 (:documentation "Get the primary fingerprint of the key."))

(defmethod fpr ((key key))
 (getf (car (getf (key-data key) :subkeys)) :fpr))


;;; The context type: Crypto-Operations.

(defgeneric get-key (ctx fpr &optional secret)
 (:documentation "Get the (secret) key FPR from CTX."))

(defmethod get-key ((ctx context) fpr &optional secret)
 (gpgme-get-key ctx fpr secret))

;;; Encrypt.

(defgeneric
 op-encrypt (ctx recp plain cipher &key always-trust sign)
 (:documentation "Encrypt."))

(defmethod op-encrypt ((ctx context) recp plain cipher
        &key always-trust sign)
 (with-foreign-object (c-recp :pointer (+ 1 (length recp)))
  (dotimes (i (length recp))
   (setf (mem-aref c-recp 'gpgme-key-t i) (elt recp i)))
  (setf (mem-aref c-recp :pointer (length recp)) (null-pointer))
  (with-gpgme-data (in plain)
   (with-gpgme-data (out cipher)
 (let ((flags))
  (if always-trust (push :always-trust flags))
  (cond
   (sign
    (c-gpgme-op-encrypt-sign ctx c-recp flags in out)
```

```
      (append (c-gpgme-op-encrypt-result ctx)
       (c-gpgme-op-sign-result ctx)))
     (t
      (c-gpgme-op-encrypt ctx c-recp flags in out)
      (c-gpgme-op-encrypt-result ctx))))))))

;;; Decrypt.

(defgeneric op-decrypt (ctx cipher plain &key verify)
 (:documentation "Decrypt."))

(defmethod op-decrypt ((ctx context) cipher plain &key verify)
 (with-gpgme-data (in cipher)
   (with-gpgme-data
 (out plain)
     (cond
 (verify
  (c-gpgme-op-decrypt-verify ctx in out)
  (append (c-gpgme-op-decrypt-result ctx)
   (c-gpgme-op-verify-result ctx)))
 (t
  (c-gpgme-op-decrypt ctx in out)
  (c-gpgme-op-decrypt-result ctx))))))

;;; Signing.

(defgeneric op-sign (ctx plain sig &optional mode)
 (:documentation "Sign."))

(defmethod op-sign ((ctx context) plain sig &optional (mode :none))
 (with-gpgme-data (in plain)
   (with-gpgme-data (out sig)
     (c-gpgme-op-sign ctx in out mode)
     (c-gpgme-op-sign-result ctx))))

;;; Verify.

(defgeneric op-verify (ctx sig text &key detached)
 (:documentation "Verify."))

(defmethod op-verify ((ctx context) sig text &key detached)
 (with-gpgme-data (in sig)
   (with-gpgme-data (on text)
     (c-gpgme-op-verify ctx in (if detached on nil)
    (if detached nil on))
     (c-gpgme-op-verify-result ctx))))

;;; Import.
```

```
(defgeneric op-import (ctx keydata)
 (:documentation "Import."))

(defmethod op-import ((ctx context) keydata)
  (with-gpgme-data (in keydata)
   (c-gpgme-op-import ctx in)
   (c-gpgme-op-import-result ctx)))

;;; Export.

(defgeneric op-export (ctx pattern keydata)
 (:documentation "Export public key data matching PATTERN to the
                  stream KEYDATA."))

(defmethod op-export ((ctx context) pattern keydata)
 (with-gpgme-data (dh keydata)
   (c-gpgme-op-export ctx pattern 0 dh)))

;;; Key generation.



;;;
;;; Initialization
;;;

(defun check-version (&optional req-version)
 "Check that the GPGME version requirement is satisfied."
 (gpgme-check-version req-version))

(defparameter *version* (check-version)
 "The version number of GPGME used.")
(21:protected-private-key(3:elg(1:p193:5*n^f"Q'R0_6<ymec \=c7S8u[5
ZF'xf5yi9F@T=KhZdU0(k5nZEI/ R]njVITPU$W<xs-Yx)(1:g1:)(1:y192:O9GNR{?]Y_W[FD*zuRmk%'R\'>>e9pe
eU)uS%VJ!5F)yH*O
]l'7{@wJmQP^jurx'V2H2j[G{q_"8()(9:protected25:openpgp-s2k3-sha1-aes-cbc((4:sha18:o"%7:5242880)16:Hs*}u
)256:Gzk3%\Kb2=oOO@,}eBBI3F|OQP3eD%n,;~L-6UH^=64i);l
e+sG"(mlH_2sn_BBO7hRcZUt(p6,{5|37C3m8EY9=gQ )(12:protected-at15:20101008T070148)))
# -*- mode: org -*-
#+TITLE: A Short History of the GPGME bindings for Python
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}

* Overview
```

:PROPERTIES:
:CUSTOM_ID: overview
:END:

Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en

The GPGME Python bindings passed through many hands and numerous phases before, after a fifteen year journey, coming full circle to return to the source. This is a short explanation of that journey.

** In the beginning
:PROPERTIES:
:CUSTOM_ID: in-the-begining
:END:

In 2002 John Goerzen released PyME; Python bindings for the GPGME module which utilised the current release of Python of the time and SWIG.[fn:1] Shortly after creating it and ensuring it worked he stopped supporting it, though he left his work available on his Gopher site.

** Keeping the flame alive
:PROPERTIES:
:CUSTOM_ID: keeping-the-flame-alive
:END:

A couple of years later the project was picked up by Igor Belyi and actively developed and maintained by him from 2004 to 2008. Igor's whereabouts at the time of this document's creation are unknown, but the current authors do hope he is well. We're assuming (or hoping) that life did what life does and made continuing untenable.

** Passing the torch
:PROPERTIES:
:CUSTOM_ID: passing-the-torch
:END:

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and discovered the absence of Igor. Following a discussion on the PyME mailing list he

became the new maintainer for PyME, releasing
version 0.9.0 in May of that year. He remains the maintainer of
the original PyME release in Python 2.6 and 2.7 (available via
PyPI).

** Coming full circle
:PROPERTIES:
:CUSTOM_ID: ouroboros
:END:

In 2015 Ben McGinnes approached Martin about a Python 3 version,
while investigating how complex a task this would be the task ended
up being completed. A subsequent discussion with Werner Koch led
to the decision to fold the Python 3 port back into the original
GPGME release in the languages subdirectory for non-C bindings
under the module name of =pyme3=.

In 2016 this PyME module was integrated back into the GPGME project
by Justus Winter. During the course of this work Justus adjusted
the port to restore limited support for Python 2, but not as many
minor point releases as the original PyME package supports. During
the course of this integration the package was renamed to more
accurately
reflect its status as a component of GPGME. The =pyme3=
module was renamed to =gpg= and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this
Ben returned to maintain of gpgme Python bindings and continue
building them from that point.

* Relics of the past
:PROPERTIES:
:CUSTOM_ID: relics-past
:END:

There are a few things, in addition to code specific factors, such as
SWIG itself, which are worth noting here.

** The Annoyances of Git
:PROPERTIES:
:CUSTOM_ID: the-annoyances-of-git
:END:

As anyone who has ever worked with git knows, submodules are
horrible way to deal with pretty much anything. In the interests
of avoiding migraines, that was skipped with addition of the PyME

code to GPGME.

Instead the files were added to a subdirectory of the =lang/=
directory, along with a copy of the entire git log up to that point
as a separate file within the =lang/python/docs/= directory.[fn:2]
As the log for PyME is nearly 100KB and the log for GPGME is
approximately 1MB, this would cause considerable bloat, as well as
some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the
files. A regular repository version has been maintained should it
be possible to implement this better in the future.

** The Perils of PyPI
:PROPERTIES:
:CUSTOM_ID: the-perils-of-pypi
:END:

The early port of the Python 2 =pyme= module as =pyme3= was never
added to PyPI while the focus remained on development and testing
during 2015 and early 2016. Later in 2016, however, when Justus
completed his major integration work and subsequently renamed the
module from =pyme3= to =gpg=, some prior releases were also
provided through PyPI.

Since these bindings require a matching release of the GPGME
libraries in order to function, it was determined that there was
little benefit in also providing a copy
through PyPI since anyone
obtaining the GPGME source code would obtain the Python bindings
source code at the same time. Whereas there was the potential to
sew confusion amongst Python users installing the module from PyPI,
only to discover that without the relevant C files, header files or
SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI which might turn up in a search
for this module or a sample of its content:

1. gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
2. pyme (0.9.0) - Python support for GPGME GnuPG cryptography library

*** GPG 180 - Python bindings for GPGME GnuPG cryptography library
:PROPERTIES:
:CUSTOM_ID: pypi-gpgme-180
:END:

This is the most recent version to reach PyPI and is the version

of the official Pyhon bindings which shipped with GPGME 1.8.0. If
you have GPGME 1.8.0 installed and /only/ 1.8.0 installed, then it
is probably safe to use
this copy from PyPI.

As there have been a lot of changes since the release of GPGME
1.8.0, the GnuPG Project recommends not using this version of the
module and instead installing the current version of GPGME along
with the Python bindings included with that package.

*** PyME 090 - Python support for GPGME GnuPG cryptography library
:PROPERTIES:
:CUSTOM_ID: pypi-gpgme-90
:END:

This is the last release of the PyME bindings maintained by Martin
Albrecht and is only compatible with Python 2, it will not work
with Python 3. This is the version of the software from which the
port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous
points of similarity, but also significant differences. It is
likely that the more recent official bindings will feel "more
pythonic."

For those using Python 2, there is essentially no harm in using
this module, but it may lack
a number of more recent features
added to GPGME.

* Footnotes

[fn:1] In all likelihood this would have been Python 2.2 or possibly
Python 2.3.

[fn:2] The entire PyME git log and other preceding VCS logs are
located in the =gpgme/lang/python/docs/old-commits.log= file.
HACKING -*- org -*-
#+TITLE: Hacking notes for GPGME
#+STARTUP: showall

* How to contribute
** No more ChangeLog files

Do not modify any of the ChangeLog files in GPGME. Starting
on December 1st, 2011 we put change information only in the GIT

commit log, and generate a top-level ChangeLog file from logs at
"make dist" time. As such, there are strict requirements on the
form of the commit log messages. The old ChangeLog files have all
be renamed to ChangeLog-2011

** Commit log requirements

Your commit log should always start with a one-line summary, the
second line should be blank, and the remaining lines are usually
ChangeLog-style entries for all affected files. However, it's fine
-- even recommended -- to write a few lines of prose describing the
change, when the summary and ChangeLog entries don't give enough of
the big picture. Omit the leading TABs that you're used to seeing
in a "real" ChangeLog
file, but keep the maximum line length at 72
or smaller, so that the generated ChangeLog lines, each with its
leading TAB, will not exceed 80 columns. If you want to add text
which shall not be copied to the ChangeLog, separate it by a line
consisting of two dashes at the begin of a line.

Note that ./autogen.sh installs a git hook to do some basic syntax
checking on the commit log message.

Typo fixes and documentation updates don't need a ChangeLog entry;
thus you would use a commit message like

#+begin_example
Fix typo in a comment

--
#+end_example

The marker line here is important; without it the first line would
appear in the ChangeLog.

If you exceptionally need to have longer lines in a commit log you may
do this after this scissor line:
#+begin_example
------------------------ >8 ------------------------
#+end_example
(hash, blank, 24 dashes, blank, scissor, blank, 24 dashes).
Note that such a comment will be removed if the
git commit option
=--cleanup-scissor= is used.

** License policy

GPGME is currently licensed under the LGPLv2.1+ with tools and the
manual being under the GPLv3+. We may eventually update to a newer
version of the licenses or a combination of them. It is thus
important, that all contributed code allows for an update of the
license; for example we can't accept code under the LGPLv2(only).

If you want to contribute code or documentation to GPGME you are
asked to assert that the contribution is in accordance to the "GPGME
Developer's Certificate of Origin" as found in the file "DCO".
Except for a slight wording change, this DCO is identical to the one
used by the Linux kernel. Please take these simple steps:

- Decide which mail address you want to use. Please have your real
  name in the address and not a pseudonym. Anonymous contributions
  can only be done if you find a proxy who certifies for you.

- If your employer or school might claim ownership
of code written
  by you; you need to talk to them to make sure that you have the
  right to contribute under the DCO.

- Send an OpenPGP signed mail to the gnupg-devel@gnupg.org public
  mailing list from your mail address. Include a copy of the DCO as
  found in the official master branch. Insert your name and email
  address into the DCO in the same way you want to use it later.
  Example:

    Signed-off-by: Joe R. Hacker <joe@example.org>

  If you need it, you may perform simple transformations on the mail
  address: Replacing "@" by " at " or "." by " dot ".)

- That's it. From now on you only need to add a "Signed-off-by:"
  line with your name and mail address to the GIT commit message.
  It is recommended to send the patches using a PGP/MIME signed
  mail.

** Coding standards

Please follow the GNU coding standards. If you are in doubt consult
the existing code as an example. Do no re-indent code without a
need. If you really need to
do it, use a separate commit for such a
change.

- C99 syntax should not be used; stick to C90.
- Please do not use C++ =//= style comments.
- Try to fit lines into 80 columns.

- Ignore signed/unsigned pointer mismatches
- No arithmetic on void pointers; cast to char* first.

** Commit log keywords

- GnuPG-bug-id :: Values are comma or space delimited bug numbers
  from bug.gnupg.org pertaining to this commit.
- Debian-bug-id :: Same as above but from the Debian bug tracker.
- CVE-id :: CVE id number pertaining to this commit.
- Regression-due-to :: Commit id of the regression fixed by this commit.
- Fixes-commit :: Commit id this commit fixes.
- Reported-by :: Value is a name or mail address of a bug reporte.
- Suggested-by :: Value is a name or mail address of someone how
  suggested this change.
- Co-authored-by :: Name or mail address of a co-author
- Some-comments-by :: Name or mail address of the author of

  additional comments (commit log or code).
- Proofread-by :: Sometimes used by translation commits.
- Signed-off-by :: Name or mail address of the developer

* Debug hints

- Use gpgme-tool for manual tests.
- The envvar GPGME_DEBUG enables debugging; see debug.[ch] for
  details.

Configuration files may go here. Note that config.h.in is
auto-generated so that this file is not in git.

2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-04-06 Werner Koch <wk@g10code.com>

* gpg-error.m4: Update from current libgpg-error repo.

2010-05-07 Werner Koch <wk@g10code.com>

* libassuan.m4: Update from libassuan svn.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* libassuan.m4: Fix LIBASSUAN_VERSION.

2006-06-08 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Add --all to pth-config invocation.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Fix code generation (required for Max OS X).
Submitted by Emanuele Giaquinta <exg@gentoo.org>.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* glib-2.0.m4: New file.

2004-12-28 Werner Koch <wk@g10code.com>

* pth.m4: Changed quoting for use with automake 1.9.

2004-09-14
Marcus Brinkmann <marcus@g10code.de>

* pth.m4: Disable _ac_pth_line, and don't fail if Pth is not
found.

* glibc21.m4: New file.
* gpg-error.m4: New file.
* pth.m4: New file.

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WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
GPGME Developer's Certificate of Origin. Version 1.0
==========

By making a contribution to the GPGME project, I certify that:

(a) The contribution was created in whole or in part by me and I
  have the right to submit it under the free software license
  indicated in the file; or

(b) The contribution is based upon previous work that, to the
  best of my knowledge, is covered under an appropriate free
  software license and I have the right under that license to

submit that work with modifications, whether created in whole
or in part by me, under the same free software license
(unless I am permitted to submit under a different license),
as indicated in the file; or

(c) The contribution was provided directly to me by some other
person who certified (a), (b) or (c) and I have not modified
it.

(d) I understand and agree that this project and the contribution
are public and that a record of the contribution
(including
all personal information I submit with it, including my
sign-off) is maintained indefinitely and may be redistributed
consistent with this project or the free software license(s)
involved.

Signed-off-by: [Your name and mail address]
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2008-11-08 Moritz <moritz@gnu.org>

* gpgme.lisp (size-t): Wrong call to defctype: function accepts
optional, not keyword argument.
(ssize-t): Likewise.
(off-t): Likewise.
(gpgme-data-t, gpgme-ctx-t): Likewise.
(gpgme-error-t): Likewise.
(gpgme-error-no-signal-t): Likewise.
(gpgme-err-code-t): Likewise.
(gpgme-err-source-t): Likewise.
(gpgme-sig-notation-t, gpgme-engine-info-t): Likewise.
(gpgme-subkey-t): Likewise.
(gpgme-key-sig-t): Likewise.
(gpgme-user-id-t): Likewise.
(gpgme-key-t): Likewise.
(gpgme-data-cbs-t): Likewise.
(gpgme-invalid-key-t): Likewise.
(gpgme-op-encrypt-result-t): Likewise.
(gpgme-recipient-t): Likewise.
(gpgme-op-decrypt-result-t): Likewise.
(gpgme-new-signature-t):

Likewise.
(gpgme-op-sign-result-t): Likewise.
(gpgme-signature-t): Likewise.
(gpgme-op-verify-result-t): Likewise.
(gpgme-import-status-t): Likewise.
(gpgme-op-import-result-t): Likewise.
(gpgme-op-genkey-result-t): Likewise.
(gpgme-op-keylist-result-t): Likewise.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

* Initial release.

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This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
-*- mode: org -*-
#+TITLE: What Was New in the GPGME Python Bindings and Documentation
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* What Was New
 :PROPERTIES:
 :CUSTOM_ID: new-stuff
 :END:

Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en

The following are all the past /What's New/ sections for the Python
Bindings HOWTO and other documentation.

** What Was New in GPGME 1120
:PROPERTIES:

:CUSTOM_ID: gpgme-1-12-0
:END:

The most obviously new point for those reading this guide is this
section on other new things, but thats hardly important. Not given
all the other things which spurred the need for adding this section
and its subsections.

*** New in GPGME 1120
:PROPERTIES:
:CUSTOM_ID: new-stuff-1-12-0
:END:

There have been quite a number of additions to GPGME and the Python
bindings to it since the last release of GPGME with versions 1.11.0
and 1.11.1 in April, 2018.

The bullet points of new additiions are:

- an expanded section on [[file:gpgme-python-howto#installation][installing]] and [[file:gpgme-python-howto#snafu][troubleshooting]] the Python
bindings.
- The release of Python 3.7.0; which appears to be working just fine
with our bindings, in spite of intermittent reports of problems for
many other Python projects with that new release.
- Python 3.7 has been moved to the head of the specified python
versions list in the build process.
- In
order to fix some other issues, there are certain underlying
functions which are more exposed through the [[file:gpgme-python-howto#howto-get-context][gpg.Context()]], but
ongoing documentation ought to clarify that or otherwise provide the
best means of using the bindings. Some additions to =gpg.core= and
the =Context()=, however, were intended (see below).
- Continuing work in identifying and confirming the cause of
oft-reported [[file:gpgme-python-howto#snafu-runtime-not-funtime][problems installing the Python bindings on Windows]].
- GSOC: Google's Surreptitiously Ordered Conscription ... erm ... oh,
right; Google's Summer of Code. Though there were two hopeful
candidates this year; only one ended up involved with the GnuPG
Project directly, the other concentrated on an unrelated third party
project with closer ties to one of the GNU/Linux distributions than
to the GnuPG Project. Thus the Python bindings benefited from GSOC

participant Jacob Adams, who added
the key_import function; building
on prior work by Tobias Mueller.
- Several new methods functions were added to the gpg.Context(),
including: [[file:gpgme-python-howto#howto-import-key][key_import]], [[file:gpgme-python-howto#howto-export-key][key_export]], [[file:gpgme-python-howto#howto-export-public-key][key_export_minimal]] and
[[file:gpgme-python-howto#howto-export-secret-key][key_export_secret]].
- Importing and exporting examples include versions integrated with
Marcel Fest's recently released [[https://github.com/Selfnet/hkp4py][HKP for Python]] module. Some
[[file:gpgme-python-howto#hkp4py][additional notes on this module]] are included at the end of the HOWTO.
- Instructions for dealing with semi-walled garden implementations
like ProtonMail are also included. This is intended to make things
a little easier when communicating with users of ProtonMail's
services and should not be construed as an endorsement of said
service. The GnuPG Project neither favours,
nor disfavours
ProtonMail and the majority of this deals with interacting with the
ProtonMail keyserver.
- Semi-formalised the location where [[file:gpgme-python-howto#draft-editions][draft versions]] of this HOWTO may
periodically be accessible. This is both for the reference of
others and testing the publishing of the document itself. Renamed
this file at around the same time.
- The Texinfo documentation build configuration has been replicated
from the parent project in order to make to maintain consistency
with that project (and actually ship with each release).
- a reStructuredText (=.rst=) version is also generated for Python
developers more used to and comfortable with that format as it is
the standard Python documentation format and Python developers may
wish to use it with Sphinx. Please note that there has been no
testing of the reStructuredText version with Sphinx at all. The
reST file was generated by the simple expedient of using [[https://pandoc.org/][Pandoc]].
-
Added a new section for [[file:gpgme-python-howto#advanced-use][advanced or experimental use]].
- Began the advanced use cases with [[file:gpgme-python-howto#cython][a section]] on using the module with
[[https://cython.org/][Cython]].
- Added a number of new scripts to the =example/howto/= directory;
some of which may be in advance of their planned sections of the
HOWTO (and some are just there because it seemed like a good idea at
the time).
- Cleaned up a lot of things under the hood.
000
*H
010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 *H
certify@pca.dfn.de0
981029180310Z
011231180310Z010 UDE1!0U

Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 *H
certify@pca.dfn.de0"0
*H
0
nskvS2r#iA4H|*/
:Sd;v
tD}L+~IWWD|eP&qH)
!1\p%,1.tIsmnQ,g-W)@\(t<kvm5j(d)9M_KGQJ0:qTE 00 `HB0) `HBhttps://mystic.pca.dfn.de/0A
`HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html08 `HB
+)The DFN Top Level Certification Authority0! `HBcgi/check-rev.cgi?0 `HB
dfnpca.crl0U00U0
*H
`^[:8\e7*%QC?:/JVgwPUB
OgGqjGVxl50%<`Pb18 z;t~r0U<A%3#l'8b"<iX"V!k"*Q8&hAPI"3 00KUb&Qq'46_{D[JZ!i<=T
/OF
Wenn Sie dies lesen knnen, ist es wohl nicht
geheim genug.
1.13.1
This is gpgme.info, produced by makeinfo version 6.3 from gpgme.texi.

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document under the terms of the GNU General Public License as
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Public License for more details.
INFO-DIR-SECTION GNU Libraries
START-INFO-DIR-ENTRY
* GPGME: (gpgme).   Adding support for cryptography to your program.
END-INFO-DIR-ENTRY

This file documents the GPGME library.

This is Edition 1.12.1-beta100, last updated 3 December 2018, of The
GnuPG Made Easy Reference Manual, for Version
1.12.1-beta100.

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Indirect:
gpgme.info-1: 1689
gpgme.info-2: 301885

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Node: UI Server Sign296188
Node: UI Server Decrypt298541
Node: UI Server Verify301885
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Node: UI Server Verify/Decrypt
Files308335
Node: UI Server Import/Export Keys310211
Node: UI Server Checksum Files311273
Node: Miscellaneous UI Server Commands313491
Ref: command SENDER315422
Node: Debugging317124
Node: Deprecated Functions318873
Node: Library Copying344090
Node: Copying372310
Node: Concept Index410060
Node: Function and Data Index425058

End Tag Table

Local Variables:
coding: utf-8
End:
hkp4py
requests
\input texinfo   @c -*- texinfo -*-
@c %**start of header
@setfilename what-was-new.info
@settitle What Was New in the GPGME Python Bindings and Documentation
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title What Was New in the GPGME Python Bindings and Documentation
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top What Was New in the GPGME Python Bindings and Documentation
@end ifnottex

@menu
* What Was New::

@detailmenu
--- The Detailed Node Listing ---

What Was New

* What Was New in GPGME 1120::

What Was New in GPGME 1120

* New in GPGME 1120::

@end detailmenu
@end menu

@node What Was New
@chapter What Was New

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:

@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian English, British English
@item
xml:lang:
@tab en-AU, en-GB, en
@end multitable

The following are all the past @emph{What's New} sections for the Python Bindings HOWTO and other documentation.

@menu
* What Was New in GPGME 1120::
@end menu

@node What Was New in GPGME 1120
@section What Was New in GPGME 1120

The most obviously new point for those reading this guide is this section on other new things, but thats hardly important. Not given all the other things which spurred the need for adding this section and its subsections.

@menu
* New in GPGME 1120::
@end menu

@node New in GPGME 1120
@subsection New in GPGME 1120

There have been quite a number of additions to GPGME and the Python bindings to it since the last release of GPGME with versions 1.11.0 and 1.11.1 in April, 2018.

The bullet points of new additiions are:

@itemize
@item
an expanded section on @uref{gpgme-python-howto#installation, installing} and @uref{gpgme-python-howto#snafu, troubleshooting} the Python
bindings.
@item

The release of Python
3.7.0; which appears to be working just fine
with our bindings, in spite of intermittent reports of problems for
many other Python projects with that new release.
@item
Python 3.7 has been moved to the head of the specified python
versions list in the build process.
@item
In order to fix some other issues, there are certain underlying
functions which are more exposed through the @uref{gpgme-python-howto#howto-get-context, gpg.Context()}, but
ongoing documentation ought to clarify that or otherwise provide the
best means of using the bindings. Some additions to @samp{gpg.core} and
the @samp{Context()}, however, were intended (see below).
@item
Continuing work in identifying and confirming the cause of
oft-reported @uref{gpgme-python-howto#snafu-runtime-not-funtime, problems installing the Python bindings on
Windows}.
@item
GSOC: Google's Surreptitiously Ordered Conscription @dots{} erm @dots{} oh,
right; Google's Summer of Code. Though there were two hopeful
candidates this year;
only one ended up involved with the GnuPG
Project directly, the other concentrated on an unrelated third party
project with closer ties to one of the GNU/Linux distributions than
to the GnuPG Project. Thus the Python bindings benefited from GSOC
participant Jacob Adams, who added the key@math{_import} function; building
on prior work by Tobias Mueller.
@item
Several new methods functions were added to the gpg.Context(),
including: @uref{gpgme-python-howto#howto-import-key, key@math{_import}}, @uref{gpgme-python-
howto#howto-export-key, key@math{_export}}, @uref{gpgme-python-howto#howto-export-public-key,
key@math{_export}@math{_minimal}} and
@uref{gpgme-python-howto#howto-export-secret-key, key@math{_export}@math{_secret}}.
@item
Importing and exporting examples include versions integrated with
Marcel Fest's recently released @uref{https://github.com/Selfnet/hkp4py, HKP for Python} module. Some
@uref{gpgme-python-howto#hkp4py, additional notes on this module} are included at the end
of the HOWTO.
@item
Instructions for dealing with semi-walled garden implementations
like ProtonMail are also included. This is intended to make things
a little easier when communicating with users of ProtonMail's
services and should not be construed as an endorsement of said
service. The GnuPG Project neither favours, nor disfavours
ProtonMail and the majority of this deals with interacting with the
ProtonMail keyserver.
@item
Semi-formalised the location where @uref{gpgme-python-howto#draft-editions, draft versions} of this HOWTO

may
periodically be accessible. This is both for the reference of
others and testing the publishing of the document itself. Renamed
this file at around the same time.
@item
The Texinfo documentation build configuration has been replicated
from the parent project in order to make to maintain consistency
with that project (and actually ship with each release).
@item
a reStructuredText (@samp{.rst}) version is also generated for Python
developers more used
 to and comfortable with that format as it is
the standard Python documentation format and Python developers may
wish to use it with Sphinx. Please note that there has been no
testing of the reStructuredText version with Sphinx at all. The
reST file was generated by the simple expedient of using @uref{https://pandoc.org/, Pandoc}.
@item
Added a new section for @uref{gpgme-python-howto#advanced-use, advanced or experimental use}.
@item
Began the advanced use cases with @uref{gpgme-python-howto#cython, a section} on using the module with
@uref{https://cython.org/, Cython}.
@item
Added a number of new scripts to the @samp{example/howto/} directory;
some of which may be in advance of their planned sections of the
HOWTO (and some are just there because it seemed like a good idea at
the time).
@item
Cleaned up a lot of things under the hood.
@end itemize

@bye
Additional license notices for GPGME. -*- org -*-

This file contains the copying permission notices for various files in
the GPGME distribution which are not covered by the GNU Lesser
General Public License (LGPL) or the GNU General Public License (GPL).

These notices all require that a copy of the notice be included
in the accompanying documentation and be distributed with binary
distributions of the code, so be sure to include this file along
with any binary distributions derived from the GNU C Library.

* MIT License

 For files:
 - cJSON.c, cJSON.h

#+begin_quote

Copyright (c) 2009 Dave Gamble

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a opy of this software and associated documentation files (the
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OF CONTRACT, TORT OR OTHERWISE, ARISING ROM, OUT OF OR IN CONNECTION
WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.
#+end_quote
-*- mode: org -*-
#+TITLE: Maintenance Mode
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* Maintenance Mode from 2019
 :PROPERTIES:
 :CUSTOM_ID: maintenance-mode
 :END:

Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en

From the beginning of 2019 the Python bindings to GPGME will enter
maintenance mode, meaning that new features will not be added and only

bug fixes and security fixes will be made.
  This also means that
documentation beyond that existing at the end of 2018 will not be
developed further except to correct errors.

Though use of these bindings appears to have been quite well received,
there has been no indication of what demand there is, if any for
either financial backing of the current Python bindings development or
support contracts with g10code GmbH citing the necessity of including
the bindings.

** Maintainer from 2019 onward
  :PROPERTIES:
  :CUSTOM_ID: maintenance-mode-bm
  :END:

How does this affect the position of GnuPG Python Bindings Maintainer?

Well, I will remain as maintainer of the bindings; but without funding
for that position, the amount of time I will be able to dedicate
solely to this task will be limited and reduced to volunteered time.
As with all volunteered time and effort in free software projects,
this will be subject to numerous external imperatives.

** Using the Python Bindings from 2019 and beyond
  :PROPERTIES:
  :CUSTOM_ID:
 maintenance-mode-blade-runner
  :END:

For most, if not all, Python developers using these bindings; they
will continue to just work the same as they always have. Expansions
of GPGME itself are usually handled by SWIG with the existing code and
thus bindings are generated properly when the bindings are installed
alongside GPGME and when the latter is built from source.

In the rare circumstances where that is not enough to address some new
addition to GPGME, then that is a bug and thus subject to the
maintenance mode provisions (i.e. it will be fixed following a bug
report being raised and your humble author will need to remember where
the timesheet template was filed, depending on how many years off such
an event is).

All the GPGME functionality will continue to be accessible via the
lower level, dynamically generated methods which match the GPGME C
documentation. While the more intuitively Pythonic higher level layer

already covers the vast majority of functionality people require
 with
key generation, signatures, certifications (key signing), encryption,
decryption, verification, validation, trust levels and so on.

Any wanted features lacking in the Python bindings are usually lacking
because they are missing from GPGME itself (e.g. revoking keys via the
API) and in such cases they are usually deliberately excluded. More
discussion of these issues can be found in the archives of the
[[https://lists.gnupg.org/mailman/listinfo/gnupg-devel][gnupg-devel mailing list]].

Any features existing in the dynamically generated layer for which
people want a specific, higher level function included to make it more
Pythonic (e.g. to avoid needing to learn or memorise cryptographic
mode values or GnuPG status code numbers), would be a feature request
and /not/ a bug.

It is still worthwhile requesting it, but the addition of such a
feature would not be guaranteed and provided on a purely volunteer
basis. Expediting such a request would require funding that request.

Those
 with a commercial interest in expediting such a feature request
already know how to [[https://gnupg.org/cgi-bin/procdonate.cgi?mode=preset][expedite it]] (use the message field to state what
feature is being requested).

** Documentation formats
  :PROPERTIES:
  :CUSTOM_ID: docs
  :END:

The documentation has been written in Org mode for GNU Emacs, with
both Texinfo and reStructuredText formats generated from that. The
Texinfo files are intended for use with the rest of the GnuPG
documentation; while the reStructuredText files are intended for use
with Docutils and Sphinx, as with other Python projects.

*** Cautionary Notes regarding Sphinx and EPUB
   :PROPERTIES:
   :CUSTOM_ID: sphinx-made-epubs-suck
   :END:

Though Python's Docutils in conjunction with Sphinx is capable of
generating some very useful HTML sites, as proven by [[https://readthedocs.org/][Read the Docs]] and
the [[https://docs.python.org/][Python documentation]], there are a number of output formats it does

not
 handle well. At the top of the list of things it manages to break
so atrociously as to be embarassing is the [[http://idpf.org/epub][EPUB 3]] format.

The automatically generated EPUB of the CPython documentation always
contains hundreds of validation errors and even the modest amount of
documentation here [[https://files.au.adversary.org.s3.amazonaws.com/crypto/gpgme-python/rst/epub/GPGMEPythonBindings.epub][produced a file]] with approximately thirty
validation errors. As the volume of documentation content increases,
so does the induced errors. Whereas Texinfo doesn't produce EPUB
output at all, nor does Org-mode.

Should there ever be genuine demand for this format, lodge a
[[https://dev.gnupg.org/maniphest/task/edit/form/4/][feature
request]] case marked for [[https://dev.gnupg.org/p/BenM/][my]] attention. The means of generating such
files flawlessly is already available, but is not yet part of the
GnuPG build system. Nor is it integrated with a means of converting
Org
 mode input files to the relevant base format automatically, as can
already be done when converting Org to reStructuredText or Org to
Texinfo. As a certain amount of work would be required to get it
done, there would need to be clear demand for that work to be done.
Just GNU it!
(11:private-key(3:dsa(1:p129:eC_L&$2,6tx.gh1VirlqI9
,^g3.$DveUvX1'oIj)(1:q21: #UFK2z(tuVG)(1:g128:zu^Rab;qeQQA B?/6/aspfE/
gx!Mr0YY*oMrJc2xWG:.r6)(1:y128:Uf]j^@oEn4j#QrRq" RcEa E/}4C[3A
5+~~.#!+
)W&5d)ij)(1:x21:`)))
2011-12-02 Werner Koch <wk@g10code.com>

 NB: ChangeLog files are no longer manually maintained. Starting
 on December 1st, 2011 we put change information only in the GIT
 commit log, and generate a top-level ChangeLog file from logs at
 "make dist". See doc/HACKING for details.

2011-10-25 Marcus Brinkmann <marcus@g10code.com>

 * m4/pth.m4: Removed.
 * configure.ac: Remove check for pth and automake conditional
 HAVE_PTH.

2011-06-16 Marcus Brinkmann <marcus@g10code.com>

 Release 1.3.1

 * configure.ac: Set LT version to C19/A8/R0.

2011-05-06 Marcus Brinkmann <marcus@g10code.com>

* Makefile.am (SUBDIRS): Remove complus.

* configure.ac (AC_CONFIG_FILES): Remove complus/Makefile.
(BUILD_COMPLUS): Remove AM_CONDITIONAL.
* complus/: Remove very old and stale component.

* acinclude.m4 (GNUPG_FIX_HDR_VERSION): Remove.

2011-04-14 Werner Koch <wk@g10code.com>

* configure.ac: Require automake 1.11.

2011-04-06 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32):
Support option --build-w64.
* configure.ac (HAVE_W64_SYSTEM): Define.
(INSERT__TYPEDEFS_FOR_GPGME_H): New.
(GPGME_CONFIG_HOST): New.

2011-02-02 Marcus Brinkmann <mb@g10code.com>

* configure.ac (NEED_LIBASSUAN_VERSION): Bump to 2.0.2 for system hooks.

2010-12-30 Werner Koch <wk@g10code.com>

* configure.ac: Support a git revision.

2010-11-03 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys/types.h and
sys.stat.h.

2010-11-02 Werner Koch <wk@g10code.com>

* configure.ac (AC_CHECK_HEADERS): Check for sys.time.h.

2010-08-19 Werner Koch <wk@g10code.com>

* configure.ac (AH_BOTTOM): Define GPG_ERR_ENABLE_ERRNO_MACROS.

2010-05-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for setlocale.

2010-05-07 Werner Koch <wk@g10code.com>

* configure.ac: Change checks to always require libassuan.

2010-05-07 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Update the thing.

* configure.ac: Check for locale.h.

2010-05-06
Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Detect Windows CE.
(HAVE_W32CE_SYSTEM): New symbol and automake conditional.
* ltmain.sh, m4/libtool.m4: Patch so that it works for Windows CE.

* configure.ac: Require libgpg-error 1.8.

2010-03-15 Werner Koch <wk@g10code.com>

* configure.ac (emacs_local_vars_begin)
(emacs_local_vars_read_only, emacs_local_vars_end): New.

2010-01-22 Werner Koch <wk@g10code.com>

* autogen.sh (--build-w32): Add --with-libassuan-prefix.

2010-01-11 Marcus Brinkmann <marcus@g10code.de>

Release 1.3.0.

2009-12-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Do not use echo -n. Test for __thread.

2009-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Make largefile check more robust.

2009-12-10 Werner Koch <wk@g10code.com>

* configure.ac: Check for getgid and getegid.

2009-12-08 Marcus Brinkmann <marcus@g10code.de>

Update to libtool 2.2.6a.
* configure.ac: Invoke AC_CONFIG_MACRO_DIR.
(AC_LIBTOOL_WIN32_DLL,

AC_LIBTOOL_RC): Replace by ...
(LT_PREREQ, LT_INIT, LT_LANG): ... these.
* config.guess, config.sub, install-sh, ltmain.sh, m4/libtool.m4:
Updated to libtool 2.2.6a.
* m4/ltoptions.m4, m4/ltsugar.m4, m4/ltversion.m4,
m4/lt~obsolete.m4: New files from libtool 2.2.6a.

2009-11-10 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Activate UIServer if FD passing is enabled and
Assuan is available.

2009-10-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for argp.h and error_t.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION_DEFAULT): Bump to 1.4.0 as 1.3.0
was development versions only.

2009-10-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for G13.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_CONFIG_FILES): Remove assuan/Makefile.

2009-10-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace internal libassuan by external libassuan.
* m4/libassuan.m4:
New file.
* Makefile.am (assuan): Remove variable.
(SUBDIRS): Remove ${assuan}.
* assuan/: Removed.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add AC_TYPE_UINTPTR_T.

* assuan/assuan.h [_ASSUAN_IN_GPGME_BUILD_ASSUAN]: Declare
_gpgme_io_connect.

2009-06-18 Marcus Brinkmann <marcus@g10code.de>

Released GPGME 1.2.0.

* configure.ac (my_version): Set to 1.2.0.
(LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump.
(LIBGPGME_LT_REVISION): Reset.

2009-05-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add infrastructure for compile time check of
_FILE_OFFSET_BITS.

2009-04-19 Moritz <moritz@gnu.org>

* Makefile.am (DISTCHECK_CONFIGURE_FLAGS): Specify --with-gpg.

2009-03-06 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update to libassuan SVN 2009-03-06.

2009-01-26 Werner Koch <wk@g10code.com>

* configure.ac (AC_CONFIG_FILES): Add tests/opassuan/Makefile.

2008-12-08 Marcus Brinkmann <marcus@g10code.de>

Release GPGME
1.1.8.

* configure.ac: Bump API revision.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

* configure.ac: Replace gpgme paths with src.
* gpgme: Move to ...
* src: ... this new directory.

2008-10-20 Werner Koch <wk@g10code.com>

* configure.ac (AC_CONFIG_FILES): Add gpgme.h.
(GNUPG_FIX_HDR_VERSION): Remove.

2008-10-17 Marcus Brinkmann <marcus@g10code.com>

Release GPGME 1.1.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2008-09-19 Moritz <moritz@gnu.org>

* configure.ac: Remove bogus "esac".

2008-09-16 Marcus Brinkmann <marcus@g10code.com>

* configure.ac (_XOPEN_SOURCE) [apple-darwin]: Define it.

2008-07-04 Werner Koch <wk@g10code.com>

* config.guess, config.sub: Update to 2007-11-19. Also update
missing et al scripts.

2008-04-01 Werner Koch <wk@g10code.com>

* configure.ac (AC_INIT): Fix quoting.

2008-01-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump required version of automake up to 1.10.
* autogen.sh: Fix
aclocal check.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

Release GPGME 1.1.6.

* configure.ac: Support gpgconf.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* assuan-pipe-connect.c (pipe_connect_gpgme): Do not close process
handle here. Use this function also on Unix systems.

* assuan-pipe-connect.c (pipe_connect_gpgme): Fix last change.

* assuan-pipe-connect.c (pipe_connect_gpgme): New function, use it
if _ASSUAN_IN_GPGME_BUILD_ASSUAN.

2007-09-17 Werner Koch <wk@g10code.com>

* configure.ac: Use the svn version magic.

2007-09-07 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for C++, Qt and support --enable-w32-qt.
* m4/pkg.m4: New file.

2007-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (--enable-w32-glib): Use --enableval, not
--withval.

2007-07-16 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-socket.c (_assuan_close): Always use close().
* assuan/assuan.h (_gpgme_io_close): New prototype.
(close): New
macro, define as _gpgme_io_close.

2007-07-13 Marcus Brinkmann <marcus@g10code.de>

* assuan/assuan-io.c (_assuan_simple_read, _assuan_simple_write):
Always use read/write (which means _gpgme_io_read and
_gpgme_io_write).

2007-07-09 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.5.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPGSM_DEFAULT) [*-mingw32*]: Initialize it.
(HAVE_ASSUAN_H): Set to 1 if we have it.
(funopen): Use AC_REPLACE_FUNCS.
(USE_DESCRIPTOR_PASSING): Define to 1 if we have it. Do not
define it at all if we don't.
(NETLIBS) [have_w32_system]: Add -lws2_32.
(DIRSEP_C, DIRSEP_S, EXPSEP_C, EXPSEP_S, PATHSEP_S)
[HAVE_DOSISH_SYSTEM]: Remove definitions.

* assuan/assuan.h (_assuan_funopen): Define to _gpgme_funopen.
* assuan/funopen.c: Move to ../gpgme/funopen.c.
* assuan/Makefile.am (libassuan_la_SOURCES): Remove funopen.c.

2007-07-04 Marcus Brinkmann <marcus@g10code.de>

*
assuan/Makefile.am (INCLUDES): Include $(top_srcdir)/gpgme.
* assuan/assuan.h: Include <ath.h> instead of trying to duplicate
the definitions.

* assuan/: Update files to 2007-07-04 version of assuan.

* autogen.sh: Use = not == in test.

2007-03-05 Werner Koch <wk@g10code.com>

Released 1.1.4.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

* autogen.sh: New option --force.

2007-01-29 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.3.

* configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2007-01-26 Werner Koch <wk@g10code.com>

* configure.ac: Changed gpg and gpgsm version checks to work with
arbitrary names of the gpg binary. New option --disable-gpg-test
and --disable-gpgsm-test.

2007-01-09 Werner Koch <wk@g10code.com>

* configure.ac (NEED_GPG_VERSION, NEED_GPGSM_VERSION): Must define
after it may have been changed by an option.

2007-01-08 Werner Koch <wk@g10code.com>

* configure.ac: Require gpg-error 1.4 due to the use of
gpg_error_from_syserror.
(HAVE_ASSUAN_H):
New.

2007-01-05 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add options --with-gpg-version and
--with-gpgsm-version to allow overriding the minimum version
requirements.

2006-12-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Fix two typos in last change.

2006-12-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Use descriptor passing only if --enable-fd-passing
is provided.

* configure.ac: Add check for use of descriptor passing.

2006-11-29 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac (NEED_GPG_VERSION): Bump to 1.3.0.

2006-09-19 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac: Turn stpcpy into a replacement function.
 Check for unistd.h and add setenv as replacement function.

2006-07-29 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac: Check for network libraries and set NETLIBS.

2006-07-06 Marcus Brinkmann <marcus@g10code.de>

 * lang, lang/cl: New subdirectories.
 *
 lang/Makefile.am, lang/README: New files.
 * configure.ac (AC_CONFIG_FILES): Add lang/Makefile,
 lang/cl/Makefile and lang/cl/gpgme.asd.
 * Makefile.am (SUBDIRS): Add lang.

2006-03-02 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac (LIBGPGME_LT_REVISION): Bump for release.

2006-02-22 Marcus Brinkmann <marcus@g10code.de>

 Released 1.1.1.

 * configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for
 release.
 (LIBGPGME_LT_REVISION): Reset to 0 for release.

2006-01-05 Werner Koch <wk@g10code.com>

 * configure.ac: Test for inline feature.
 (AH_BOTTOM): New to define the pure attribute.

2006-01-03 Werner Koch <wk@g10code.com>

 * configure.ac: Append SVN revision to the version.

2005-11-18 Werner Koch <wk@g10code.com>

 * configure.ac (BUILD_REVISION): New.

2005-11-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add support for --enable-w32-glib (disabled by
default). Invoke AM_PATH_GLIB_2_0.

2005-11-16 Werner Koch <wk@g10code.com>

* configure.ac
(CFLAGS) [W32]: Make sure that -mms-bitfields are used.

2005-11-15 Werner Koch <wk@g10code.com>

* configure.ac: Create BUILD_FILEVERSION from SVN Revision.

* autogen.sh [W32]: Build shared and static versions of the library.

2005-10-20 Marcus Brinkmann <marcus@g10code.de>

* w32-dll/ChangeLog, w32-dll/build-dll, w32-dll/gpgme.def: Remove
files.

* configure.ac: Instead checking for windres and dlltool, invoke
AC_LIBTOOL_WIN32_DLL and AC_LIBTOOL_RC.
* src/Makefile.am [HAVE_W32_SYSTEM]: Use libtool, which simplifies
the rules.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

Released 1.1.0.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump for
release.
(LIBGPGME_LT_REVISION): Reset to 0 for release.

2005-09-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (HAVE_PTH): Don't add $PTH_CFLAGS to $CFLAGS here.

2005-08-26 Werner Koch <wk@g10code.com>

* configure.ac (SEPCONSTANTS): New to define DIRSEP_C et al.

2005-08-19 Werner Koch <wk@g10code.com>

*
configure.ac [W32]: Create values for versioninfo.rc and list
substuture versioninfo.rc.
* configure.ac: Define ENABLE_GPGSM.

2005-08-08 Werner Koch <wk@g10code.com>

* configure.ac (stpcpy): Changed from replace to test.

2005-03-24 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AH_BOTTOM): Removed.

2005-03-09 Werner Koch <wk@g10code.com>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): Assume no when cross-compiling.

* Makefile.am (EXTRA_DIST): Include autogen.sh

* autogen.sh: Added the usual code to build for W32 (--build-w32).

* configure.ac: Fixed the mingw32 host string, removed OS/2 stuff.
(HAVE_DRIVE_LETTERS): Removed.
(HAVE_W32_SYSTEM): Added.
(AC_GNU_SOURCE): New to replace the identical AH_VERBATIM.
(AH_BOTTOM): Added.

2004-12-28 Werner Koch <wk@g10code.com>

Released 1.0.2.

* Makefile.am (AUTOMAKE_OPTIONS): Build bzip 2 version.
(ACLOCAL_AMFLAGS): Add -I m4.
* configure.ac: Require automake 1.9.3 and autoconf 2.59.
* acinclude.m4:
Changed quoting for automake 1.9.
* README: Use SHA1 instead of MD5.

2004-12-11 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Replace ttyname_r if it doesn't exist (and warn in
that case).

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* README: Refer to COPYING.LESSER and "each file" instead of
COPYING.
* COPYING.LESSER: New file.
* gpgme.spec.in (%doc): Add COPYING.LESSER.
* acinclude.m4, configure.ac, Makefile.am: Change license to LGPL
2.1 or later.
* TODO: Add copyright notice.

* README.CVS: Likewise.

* configure.ac (GPGSM_VERSION): Fix filter to get it.

2004-10-22 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.1.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 2.
(AC_INIT): Set version to 1.0.1.

* configure.ac: Set HAVE_GPGSM to true only if $GPGSM is not "no".

2004-09-30 Marcus Brinkmann <marcus@g10code.de>

Released 1.0.0.

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.
(AC_INIT): Set version to 1.0.0.

* Makefile.am
(EXTRA_DIST): Remove README-alpha.
* README-alpha: Remove file.

2004-09-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable AC_CONFIG_MACRO_DIR for now.

2004-09-14 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Improve diagnostics with version check.

* configure.ac: Print diagnostics about found thread libraries at
the end. Check for the versions of GPG and GPGSM and print the
found versions at the end.
(HAVE_GPGSM): Do not require GPGSM to exist and be readable.
(AC_CONFIG_MACRO_DIR): Invoke with argument m4.

* acinclude.m4: Add copyright notice.
(jm_GLIBC21, AM_PATH_GPG_ERROR, _AC_PTH_ERROR, _AC_PTH_VERBOSE,
AC_CHECK_PTH): Removed.

2004-06-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Check for <sys/uio.h>.

2004-06-08 Marcus Brinkmann <marcus@g10code.de>

Released 0.9.0.

* configure.ac (AC_INIT): Set version number to 0.9.0.
(LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by one.
(LIBGPGME_LT_REVISION): Reset to zero.

2004-05-21
Marcus Brinkmann <marcus@g10code.de>

* configure.ac (GPGME_CONFIG_API_VERSION): New variable,
substitute it.

2004-04-29 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.7.

* configure.ac (LIBGPGME_LT_REVISION): Bump it up.

2004-04-02 Thomas Schwinge <schwinge@nic-nac-project.de>

* autogen.sh: Added ACLOCAL_FLAGS.

2004-04-06 Werner Koch <wk@gnupg.org>

Released 0.4.6.

* config.guess, config.sub, ltmain.sh: Updated to those from
libtools 1.5.4.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.5.

* configure.ac (NEED_GPGSM_VERSION): Bump up to 1.9.6.

* Makefile.am (EXTRA_DIST): Remove autogen.sh and README.CVS.

2004-02-18 Werner Koch <wk@gnupg.org>

* configure.ac: Make the check for funopen fail with just a
warning.

2004-02-11 Werner Koch <wk@gnupg.org>

* autogen.sh (check_version): Removed bashism and simplified.

2004-02-10 Werner Koch <wk@gnupg.org>

* configure.ac: Fixed funopen test change.

2004-02-06 Moritz Schulte
<mo@g10code.com>

* configure.ac: Fix funopen replacement mechanism.

2004-01-31 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add invocation of AC_SYS_LARGEFILE, AC_TYPE_OFF_T
and AC_FUNC_FSEEKO.

2004-01-12 Werner Koch <wk@gnupg.org>

Released 0.4.4.

* configure.ac: Bumbed LT_Revision; now at C12/A1/R1.
(NEED_GPGSM_VERSION): Set to 1.9.3.
(min_automake_version): Added.
* README.CVS: New.
* Makefile.am (EXTRA_DIST): Added README.CVS.
* autogen.sh: Updated.

2003-11-19 Werner Koch <wk@gnupg.org>

* acinclude.m4: Add AM_PATH_GPG_ERROR.
* configure.ac: Check for timegm. Made warning messages more
prominent.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

Released 0.4.3.

* configure.ac (LIBGPGME_LT_CURRENT, LIBGPGME_LT_AGE): Bump up by 1.
(LIBGPGME_LT_REVISION): Set to 0.

2003-09-13 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Require libgpg-error 0.5.

* acinclude.m4: Remove libtool cruft, add jm_GLIBC21.
* configure.ac: Add check for
getenv_r, and call jm_GLIBC21.
Define HAVE_THREAD_SAFE_GETENV if appropriate.

2003-09-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Remove GPGME_CONFIG_LIBS and GPGME_CONFIG_CFLAGS.

2003-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Move invocation of AC_CANONICAL_HOST up to
suppress warning by autoconf.

2003-08-30 Robert Schiele <rschiele@uni-mannheim.de>

* gpgme.spec.in: %{_infodir}/dir is not packaged,
remove to prevent checking failure.

2003-08-18 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: If building Assuan, check for funopen and
fopencookie, and make isascii, putc_unlocked and memrchr
replacement functions.
(AM_PATH_GPG_ERROR): Require 0.3.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.3.

2003-07-30 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_REVISION): Bump up to 1.

Released 0.4.2.

2003-07-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac:
Complain if libgpg-error is not found.

2003-06-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version to 0.4.2.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Bump up to 11.

* configure.ac: Use AM_PATH_GPG_ERROR.

* configure.ac: Check for libgpg-error. Define
GPG_ERR_SOURCE_DEFAULT.

2003-05-26 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPG_VERSION): Bump up to 1.2.2.

2003-05-18 Marcus Brinkmann <marcus@g10code.de>

In all files, replace the Gpgme* type names with the new gpgme_*
type names.

2003-02-01 Marcus Brinkmann <marcus@g10code.de>

* assuan/: Update files to 2002-11-10 version of assuan.

2003-01-29 Marcus Brinkmann <marcus@g10code.de>

* bonobo/gpgme.c, bonobo/main.c, bonobo/main.h, bonobo/Makefile,
bonobo/Makefile.am, bonobo/Makefile.in: Dead files removed.
* configure.ac: Remove automake conditional BUILD_BONOBO
(AC_CONFIG_FILES): Remove bonobo/Makefile.
*
Makefile.am (bonobo): Remove variable.
(SUBDIRS): Remove ${bonobo}.

* configure.ac: Remove all uses of GNUPG_CHECK_TYPEDEF, for byte,
ushort, ulong, u16 and u32.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Remove macro.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: New conditional HAVE_LD_VERSION_SCRIPT.
Call AC_CANONICAL_HOST, use host instead target.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump up to 0.4.1.

Released 0.4.0.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh (automake_vers): Require 1.7 (really 1.7.1) for the
conditional source distribution bug fix.

2002-12-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (LIBGPGME_LT_CURRENT): Increase by one.
(LIBGPGME_LT_AGE, LIBGPGME_LT_REVISION): Set to 0.

2002-11-28 Marcus Brinkmann <marcus@g10code.de>

* NEWS: Add note about moving "gpgmeplug" to the "cryptplug"
package.
* README: Remove instructions related to "gpgmeplug".
* configure.ac:
Remove enable option "gpgmeplug" and automake
conditional BUILD_GPGMEPLUG, as well as the status info about it.
(GPGMEPLUG): Remove variable.
* Makefile.am (gpgmeplug): Remove variable.
(SUBDIRS): Remove ${gpgmeplug}.
* cryptplug.h, gpgme-openpgp.c, gpgmeplug.dox, gpgme-smime.c,
Makefile.am, gpgmeplug.c, ChangeLog: Files removed.

2002-11-22 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Disable GPGSM for all dosish systems.

2002-10-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_GPGSM.

2002-10-08 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Bump version up to 0.4.0.
(NEED_GPG_VERSION): Bump up to 1.2.0.
(NEED_GPGSM_VERSION): Bump up to 0.9.0.
* README: Update version numbers.
* NEWS: Start entry for 0.4.0.

2002-09-20 Werner Koch <wk@gnupg.org>

Released 0.3.11.

* configure.ac: Bump up LIBGPGME_LT_REVISION.

* configure.ac (AC_CHECK_HEADERS): Check for sys/select.h.

2002-09-04 Marcus Brinkmann
<marcus@g10code.de>

* autogen.sh (autoconf_vers): Bump up to 2.53 to get the @&t@
quadrigraph. Always cutting the edge!

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Create and substitute LTLIBOBJS.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.10.

* NEWS: Update for 0.3.9 release.
* configure.ac: Bump up LIBGPGME_LT_REVISION.

2002-08-29 Marcus Brinkmann <marcus@g10code.de>

* gpgme.spec.in: Changed user name in Wojciech Polak's email
address from ghostface to polak per request by himself.

2002-08-28 Werner Koch <wk@gnupg.org>

* acinclude.m4 (GNUPG_CHECK_VA_COPY): New.
* configure.ac: Use it.

2002-08-23 Werner Koch <wk@gnupg.org>

* configure.ac (GPGME_CONFIG_CFLAGS): Renamed from GPGME_CFLAGS
and removed the libpath because it is set by the config script.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Bump version number to 0.3.10.

* NEWS: Add template for development version.

2002-08-21
Marcus Brinkmann <marcus@g10code.de>

Released 0.3.9.

* NEWS: Update for 0.3.9 release.
* Makefile.am (EXTRA_DIST): Add gpgme.spec.in.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* jnlib/argparse.c, jnlib/argparse.h, jnlib/ChangeLog,
jnlib/dotlock.c, jnlib/dotlock.h, jnlib/libjnlib-config.h,
jnlib/logging.c, jnlib/logging.h,jnlib/Makefile.am,
jnlib/mischelp.h, jnlib/README, jnlib/stringhelp.c,
jnlib/stringhelp.h, jnlib/strlist.c, jnlib/strlist.h,
jnlib/types.h, jnlib/xmalloc.c, jnlib/xmalloc.h: Remove files.

2002-08-21 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (SUBDIRS): Remove jnlib.
* configure.ac: Don't check for unsigned short or unsigned long.
Don't check for memicmp, strlwr, strtoul, memmove, stricmp.

Make stpcpy a replaced function.
Don't define HAVE_JNLIB_LOGGING.
Don't generate jnlib/Makefile.

2002-07-02 Werner Koch <wk@gnupg.org>

* configure.ac: Bumbed version number to 0.3.9; add a comment on
when to change it.

* gpgme.spec.in:
New. Contributed by Wojciech Polak.
* Makefile.am (dist-hook): New.

* AUTHORS: Added Wojciech and bug reporting addresses.

2002-06-25 Werner Koch <wk@gnupg.org>

Released 0.3.8.

* configure.ac: Bumbed LT version to 9/3/0.
(NEED_GPGSM_VERSION): Need 0.3.8 due to fixed export command.

2002-06-04 Marcus Brinkmann <marcus@g10code.de>

Released 0.3.7.

* configure.ac (AC_INIT): Set version to 0.3.7.
(LIBGPGME_LT_REVISION): Add one.

* README: Document version requirement correctly.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* acinclude.m4: Fix Pth check so that it doesn't error out if pth
is not found.

2002-06-02 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add checks for Pth and pthreads.
* acinclude.m4: Add slightly hacked check for pth (seems to be an
autoconf version problem).

2002-05-21 Werner Koch <wk@gnupg.org>

* configure.ac (NEED_GPGSM_VERSION): We need gpgsm 0.3.7.

2002-05-03 Werner Koch <wk@gnupg.org>

Released 0.3.6.

2002-04-05
Marcus Brinkmann <marcus@g10code.de>

* acconfig.h: File removed.
* configure.ac (NEED_GPG_VERSION): Add description.
(NEED_GPGSM_VERSION): Likewise.
(HAVE_DOSISH_SYSTEM): Likewise.
(HAVE_DRIVE_LETTERS): Likewise.
(GPG_PATH): Likewise.
(GPGSM_PATH): Likewise.
* acinclude.m4 (GNUPG_CHECK_TYPEDEF): Likewise.

2002-04-01 Werner Koch <wk@gnupg.org>

Released 0.3.5.

2002-03-17 Marcus Brinkmann <marcus@g10code.de>

* configure.ac: Add automake conditional HAVE_DOSISH_SYSTEM.

2002-03-04 Werner Koch <wk@gnupg.org>

* configure.ac: Bumbed version to 0.3.4-cvs to continue development.

Released 0.3.4.

* configure.ac: Bumbed LT version numbers to (7,1,0), requires
gpgsm 0.3.1.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT): Change version number to snapshot CVS
version.

2002-02-13 Werner Koch <wk@gnupg.org>

* configure.ac (vasprintf,fopencookie): Add checks.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (AC_INIT):
Bump version to 0.3.3.
* jnlib/Makefile.am: Rever to older version that includes xmalloc
but not dotlock and some other files. Reported by Stphane
Corthsy.

2002-02-10 Marcus Brinkmann <marcus@g10code.de>

 * Released 0.3.2.

 * configure.ac (AC_INIT): Bump version to 0.3.2.
 * jnlib/libjnlibconfig.h: Revert to older version that doesn't
 expect libgcrypt. Reported by Jose Carlos Garcia Sogo
 <jsogo@debian.org>.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

 * Released 0.3.1.

 * configure.ac (LIBGPGME_LT_CURRENT): Bump it up to 6!
 (NEED_GPGSM_VERSION): Bump it up to 0.3.0!
 (AC_INIT): Bump version to 0.3.1

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac (HAVE_JNLIB_LOGGING): Define always for assuan.

2001-12-19 Werner Koch <wk@gnupg.org>

 * configure.ac (VERSION,PACKAGE): Defined and subst. Used for
 AM_INIT_AUTOMAKE and moved all version number more to the top.

2001-12-18 Marcus Brinkmann <marcus@g10code.de>

 * autogen.sh (libtool_vers):
 Bump to 1.4.

 * configure.ac (LIBGPGME_LT_CURRENT): Increment.
 (LIBGPGME_LT_AGE): Reset.
 Improve comment.
 Fix wrong comment character.

2001-12-18 Werner Koch <wk@gnupg.org>

 * acinclude.m4 (GNUPG_FIX_HDR_VERSION): Fixed for new automake.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac (GPG): Substitute this variable.
 (GPGSM): Likewise.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

 * configure.ac (AC_CONFIG_FILES): Add tests/gpg/Makefile and

tests/gpgsm/Makefile.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (gpgmeplug): New variable, set to gpgmeplug if
[BUILD_GPGMEPLUG].
* configure.ac (AC_CONFIG_FILES): Add gpgmeplug/Makefile.
Support --enable-gpgmeplug.

2001-11-21 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Tighten version dependencies.

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (SUBDIRS): Support building the assuan library
(currently if GPGSM_PATH is set)..
* configure.ac: Support building
the assuan library.
* assuan: New directory, populated with the Assuan library
(copied from the newpg repository).

2001-11-20 Marcus Brinkmann <marcus@g10code.de>

* configure.ac (NEED_GPGSM_VERSION): New variable. Treat it
similarly to NEED_GPG_VERSION.
* acconfig.h: Likewise.

2001-11-18 Marcus Brinkmann <marcus@g10code.de>

* configure.in: Renamed to ...
* configure.ac: ... this. Update to autoconf 2.52. Lots of small
changes in the transition. Support --with-gpg=PATH and
--with-gpgsm=PATH options. Check if test suites can be run.
* acconfig.h: Add GPGSM_PATH.
* Makefile.am: New variable `tests', set to `tests' if
RUN_GPG_TESTS.
(SUBDIRS): Replace string `tests' with variable `tests'.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* autogen.sh: Invoke automake with `-a' (add missing files).
Do not invoke configure.

2001-09-17 Werner Koch <wk@gnupg.org>

Released 0.2.3.

* configure.in (NEED_GPG_VERSION): Set to 1.0.6. Incremented LT
current
and age.

* Makefile.am (SUBDIRS): Add doc

2001-06-12 Werner Koch <wk@gnupg.org>

Released 0.2.2.

2001-04-05 Werner Koch <wk@gnupg.org>

* configure.in (NEED_GPG_VERSION): Set to 1.0.4g

2001-04-02 Werner Koch <wk@gnupg.org>

Released 0.2.1.

Changed the copyright notices all over the place.

2001-02-28 Werner Koch <wk@gnupg.org>

Released 0.2.0.

2001-01-18 Werner Koch <wk@gnupg.org>

* autogen.sh: Added option --build-w32.

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implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
2011-12-02 Werner Koch <wk@g10code.com>

NB: ChangeLog files are no longer manually maintained. Starting
on December 1st, 2011 we put change information only in the GIT
commit log, and generate a top-level ChangeLog file from logs at
"make dist". See doc/HACKING for details.

2011-05-11 Marcus Brinkmann <marcus@g10code.com>

* gpgsm/Makefile.am (DISTCLEANFILES): Move to ...
(CLEANFILES): ... here.
(clean-local): New rule.
* gpg/Makefile.am (DISTCLEANFILES): Move to ...
(CLEANFILES): ... here.

2011-05-05 Marcus Brinkmann <marcus@g10code.com>

* gpg/Makefile.am: Unset GPG_AGENT_INFO when setting up local
configuration.
(clean-local): Shut down local gpg-agent.

2011-05-04 Marcus Brinkmann <marcus@g10code.com>

* gpg/t-import.c (check_result): Complete secret key pair counting
and disable status check, as GPG 2.1 currently emits two IMPORT_OK
lines and we only look at the first.

2011-04-27 Marcus Brinkmann <marcus@g10code.com>

* gpg/Makefile.am (DISTCLEANFILES):
Add S.gpg-agent.
(mkdemodirs, ./Alpha/Secret.gpg): Remove targets.
(GNUPGHOME): Export as absolute build directory (for gpg-agent).
(./pubring.gpg): Remove --homedir option, import secdemo.asc.
(clean-local): Rewrite.
* gpg/secdemo.asc: New file.
* gpg/pubkey-1.asc, gpg/seckey-1.asc: Change passphrase to
"abc" (now needed as GnuPG 2.1 asks for secret key passphrase on
import).
* gpg/t-keylist.c (keys): Update key info for Joe Random Hacker.
(main): Disable check for can_encrypt, as this is now in a
different subkey.
* gpg/t-encrypt-sign.c (check_result): Allow RMD160 hash
algorithm.
* gpg/t-import.c (check_result): One secret key pair now counts as
two secret keys, allow that.

2009-11-03 Werner Koch <wk@g10code.com>

* run-support.h (fail_if_err): Include program name.

* run-sign.c (main): Add option --uiserver.

2009-10-26 Marcus Brinkmann <marcus@g10code.de>

* opassuan/t-command.c: Update to new interface.

2009-10-15 Werner Koch <wk@g10code.com>

 * run-verify.c:
 New.

2009-08-06 Werner Koch <wk@g10code.com>

 * run-sign.c: New.

2009-07-07 Werner Koch <wk@g10code.com>

 * run-keylist.c (main): Add options --cms and --openpgp.

 * gpg/pgp-keylist.c: Rename to ...
 * run-keylist.c: ... this.
 * gpg/pgp-import.c: Rename to ...
 * run-import.c: ... this.
 * gpg/pgp-export.c: Rename to ...
 * run-export.c: ... this.
 * run-support.h: New. Copied from gpg/t-support.h.
 * gpg/Makefile.am (noinst_PROGRAMS): Remove them.
 * Makefile.am (noinst_PROGRAMS): Add them.
 (noinst_HEADERS): New.

2009-06-22 Marcus Brinkmann <marcus@g10code.de>

 * gpg/t-support.h (passphrase_cb): Implement write() according to
 the book to silence compiler warning.
 * gpgsm/t-support.h (passphrase_cb): Likewise.

2009-06-16 Werner Koch <wk@g10code.com>

 * gpg/pgp-import.c: New.
 * gpg/t-support.h (print_import_result, nonnull): Factored out
 from other tools.

 * gpg/pgp-export.c, gpg/pgp-keylist.c: New.

2009-06-09 Werner Koch <wk@g10code.com>

 * gpg/Makefile.am
 (./pubring.gpg): Ignore errors in case of
 already imported keys. Add --no-permission-warning and remove
 obsolete --allow-secret-key-import.
 * gpg/mkdemodirs.in (GPG): Add --no-permission-warning.

 * gpg/t-edit.c (edit_fnc): Use gpgme_io_write.

2009-04-19 Moritz <moritz@gnu.org>

 * gpg/Makefile.am (EXTRA_DIST): Replaced mkdemodirs with mkdemodirs.in.
(mkdemodirs): New target.
(clean-local): Added command for removing mkdemodirs script.
(./Alpha/Secret.gpg): Added dependency on mkdemodirs.

 * gpg/mkdemodirs: Renamed to ...
 * gpg/mkdemodirs.in: ... here.
 * gpg/mkdemodirs.in (GPG): Derive value from @GPG@ instead of
hard-coding "gpg".

2009-02-24 Werner Koch <wk@g10code.com>

 * opassuan/t-command.c: Adjust for changed new op_assuan interface.

2009-02-03 Werner Koch <wk@g10code.com>

 * gpg/t-keylist.c (main): Check that new fields is_cardkey and
card_number are not set.

2009-01-26 Werner Koch <wk@g10code.com>

 * opassuan/: New.
 * opassuan/Makefile.am:
New.
 * opassuan/t-command.c: New.

2008-12-03 Marcus Brinkmann <marcus@g10code.de>

 * Makefile.am (INCLUDES): Fix path to include file.
 * gpg/Makefile.am (INCLUDES), gpgsm/Makefile.am (INCLUDES): Likewise.

2008-11-18 Werner Koch <wk@g10code.com>

 * gpgsm/cms-decrypt.c: New.

2008-11-03 Marcus Brinkmann <marcus@g10code.com>

 * gpgsm/Makefile.am (INCLUDES, LDADD): Replace gpgme path with src.
 * gpg/Makefile.am (INCLUDES, LDADD, t_thread1_LDADD): Likewise.
 * Makefile.am (LDADD): Likewise.

2008-10-30 Werner Koch <wk@g10code.com>

 * gpgsm/cms-keylist.c: New.

2008-06-19 Werner Koch <wk@g10code.com>

* gpg/t-gpgconf.c (dump_arg): Add new types. Print strings in
quotes.

2008-01-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (DISTCLEANFILES): Add pubring.kbx~.

2008-01-10 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-gpgconf.c (main): Allow for dirmngr not to be available.

* gpg/Makefile.am (./gpg-agent.conf): Correct pinentry path.

* gpg/pinentry:
New file.
* gpg/Makefile.am (DISTCLEANFILES, all-local): Add gpg-agent.conf
(./gpg-agent.conf): New target.
(EXTRA_DIST): Add pinentry.

* gpg/t-gpgconf.c (main): Exit early if compiled without gpgconf.

2008-01-04 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): Add pubring.kbx and dirmngr.conf.

* Makefile.am (TESTS_ENVIRONMENT): Use absolute path for
GNUPGHOME.
* gpg/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for
GNUPGHOME.
* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Use absolute path for
GNUPGHOME.
* gpg/Makefile.am (TESTS): Add t-gpgconf.
t-gpgconf.c: New file.

2007-11-23 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (show_auditlog): Check for GPG_ERR_ASS_UNKNOWN_CMD.

2007-11-23 Werner Koch <wk@g10code.com>

* gpgsm/t-verify.c (check_result): Don't exit on error but set a flag.
(main): Cosnult flag for return value.
(show_auditlog): New.
(main): Use it.

2007-09-27 Marcus Brinkmann <marcus@g10code.de>

* t-engine-info.c
(check_engine_info): Fix debug output.
* gpg/Makefile.am (tests_unix): New variable.
(TESTS): Use it.
* gpg/t-support.h (passphrase_cb) [HAVE_W32_SYSTEM]: Use WriteFile instead of write.
* gpg/t-wait.c [HAVE_W32_SYSTEM]: Define sleep as _sleep.

2007-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (main): Release TEXT and SIG.

2007-07-12 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Change := into =.

2007-07-12 Werner Koch <wk@g10code.com>

* gpgsm/t-support.h (init_gpgme) [W32]: Do not init the locales as
the constants are not available.

2007-02-26 Werner Koch <wk@g10code.com>

* gpg/t-verify.c (double_plaintext_sig): New.
(main): Check it.

2006-12-02 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Skip unknown keys. Newer versions of
GPGSM import more keys than older ones.

2005-12-06 Werner Koch <wk@g10code.com>

* gpg/t-keylist.c (main): Changed for that secondary keys now have
a fingerprint.
*
gpg/t-keylist-sig.c (main): Ditto.
* gpgsm/t-keylist.c (main): Ditto. The test used to be wrong.

2005-10-18 Werner Koch <wk@g10code.com>

* gpg/pubdemo.asc, gpg/secdemo.asc: Add 2 expired subkeys to
Whisky.
* gpg/t-keylist.c: Reordered list to match new demo keyring. Add
arg for number of subkeys and for extra checking function.
(main): Enhanced a few error outputs. Changed subkey
counting. Call extra checking function.
(check_whisky): New.

2005-10-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (main): Allow for an email address as a second
uid.

* gpg/t-sig-notation.c: Change critical notation to something
GnuPG understands.

2005-10-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Remove gpg.conf.
(DISTCLEANFILES): Add gpg.conf.
(all-local): Add gpg.conf.
(./gpg.conf): New target.
* gpg/gpg.conf: Remove file.

* gpg/Makefile.am (EXTRA_DIST): Add gpg.conf.

* gpg/Makefile.am (TESTS): Add t-sig-notation.
* gpg/t-sig-notation.c
(check_result): New file.
* gpg/t-verify.c (check_result): Also check the length of the
notation data.
* gpg/gpg.conf: New file.

2005-09-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-filename.
* gpg/t-filename.c: New file.

2005-09-23 Werner Koch <wk@g10code.com>

* gpg/t-support.h (init_gpgme) [W32]: Don't use LC_MESSAGES.

* gpg/t-encrypt-large.c: New test.
* gpg/Makefile.am (TESTS): Add t-encrypt-large.

2005-06-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Add t-wait.
* gpg/t-wait.c (main): New test.

2004-12-07 Marcus Brinkmann <marcus@g10code.de>

* gpg/mkdemodirs: Add copyright notice.

* gpgsm/Makefile.am, gpgsm/t-support.h, gpgsm/t-decrypt.c,
gpgsm/t-encrypt.c, gpgsm/t-export.c, gpgsm/t-genkey.c,

gpgsm/t-import.c, gpgsm/t-keylist.c, gpgsm/t-sign.c,
gpgsm/t-verify.c, gpg/Makefile.am, gpg/t-decrypt.c,
gpg/t-decrypt-verify.c, gpg/t-edit.c, gpg/t-encrypt.c,
gpg/t-encrypt-sign.c, gpg/t-encrypt-sym.c,
gpg/t-eventloop.c,
gpg/t-export.c, gpg/t-genkey.c, gpg/t-import.c, gpg/t-keylist.c,
gpg/t-keylist-sig.c, gpg/t-sign.c, gpg/t-signers.c,
gpg/t-support.h, gpg/t-thread1.c, gpg/t-trustlist.c,
gpg/t-verify.c, Makefile.am, t-data.c, t-engine-info.c,
t-version.c: Change license to LGPL.

2004-08-17 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (struct): Add new fields VALIDITY and
KEY_LENGTH.
(main): Use them.
* gpgsm/t-import.c (check_result): New argument total_stat.
(main): Pass this argument. Reduce number of total considered
keys to 1 for the second test.

2004-04-05 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am: Changed the faked system time to 20011213T12000.

2004-03-07 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c: Add chain IDs.

2004-03-03 Werner Koch <wk@gnupg.org>

* gpgsm/t-export.c (main): Also check exporting 2 certificates.

2004-02-17 Werner Koch <wk@gnupg.org>

* gpgsm/t-import.c (check_result): gpgsm does now
return info in
the result->imports; adjust for that.

* gpgsm/Makefile.am (TESTS_ENVIRONMENT): Reset the GPG_AGENT_INFO.

Include config.h at the top of each C source. This is required
due to LFS support.

* gpg/t-keylist-sig.c (main): s/class/sig_class/.
* gpg/t-signers.c (check_result): Ditto.
* gpg/t-sign.c (check_result): Ditto.
* gpg/t-encrypt-sign.c (check_result): Ditto.
* gpgsm/t-sign.c (check_result): Ditto.

2004-01-12 Werner Koch <wk@gnupg.org>

* gpg/t-keylist-sig.c (main): Temporary disabled one test due top
gpg 1.3.4 problems.
* gpg/t-import.c (check_result): Likewise.

2003-11-19 Werner Koch <wk@gnupg.org>

* gpg/t-support.h (DIM): Added.

* gpg/t-verify.c (check_result): Rewrote test for notations
because the order of notaions is not guaranteed.

* gpgsm/t-support.h (fail_if_err): Also print the numeric values.

2003-10-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c: Include <sys/types.h> for old systems.

* gpgsm/Makefile.am
(DISTCLEANFILES): Add random_seed.

* gpg/t-thread1.c (thread_one): Do not call initialize_gpgme.
Likewise.

2003-09-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-thread1.c (main): Call init_gpgme here.
(initialize_gpgme): Function removed.

* gpg/t-thread1.c: New file.
* gpg/Makefile.am (TESTS): Add t-thread1.c.
(t_thread1_LDADD): New variable.
(LDADD): Remove GPG Error lib.
* gpgsm/Makefile.am (LDADD): Likewise.

* gpg/t-import.c (main): Likewise.
* gpg/t-keylist-sig.c (main): Likewise.
* gpg/t-keylist.c (main): Likewise.
* gpg/t-sign.c (main): Likewise.
* gpg/t-signers.c (main): Likewise.
* gpg/t-trustlist.c (main): Likewise.
* gpgsm/t-support.h: Include <stdlib.h> and <locale.h>.
(init_gpgme): New function.
* gpg/t-support.h: Likewise.
* gpgsm/t-verify.c (main): Call init_gpgme.
* gpgsm/t-decrypt.c (main): Likewise.

* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-genkey.c (main): Likewise.
* gpgsm/t-import.c (main):
Likewise.
* gpgsm/t-keylist.c (main): Likewise.
* gpgsm/t-sign.c (main): Likewise.
* gpg/t-verify.c (main): Call init_gpgme.
* gpg/t-decrypt-verify.c (main): Likewise.
* gpg/t-decrypt.c (main): Likewise.
* gpg/t-edit.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpg/t-encrypt-sym.c (main): Likewise.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-export.c (main): Likewise.
* gpg/t-genkey.c (main): Likewise.

2003-08-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-sign.c (check_result): Change output format for signature
class to unsigned int.
* gpg/t-signers.c (check_result): Likewise.
* gpg/t-encrypt-sign.c (check_result): Likewise.
* gpgsm/t-sign.c (check_result): Likewise.

2003-07-31 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (check_result): Change type of SUMMARY to
unsigned int.
* gpg/t-decrypt-verify.c (check_verify_result): Likewise.
* gpg/t-keylist-sig.c (keys): Change type of member CLASS
to
unsigned int.
* t-data.c (read_cb): Change type of AMOUNT to unsigned int.
* t-version.c (version): Remove unused variable.

2003-07-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (AM_CPPFLAGS): New variable.
(LDADD): Add @GPG_ERROR_LIBS@.
* gpg/Makefile.am (AM_CPPFLAGS): New variable.
(LDADD): Add @GPG_ERROR_LIBS@.
* gpgsm/Makefile.am (AM_CPPFLAGS): New variable.
(LDADD): Add @GPG_ERROR_LIBS@.

2003-06-06 Marcus Brinkmann <marcus@g10code.de>

Everywhere: Use libgpg-error error codes.

* gpg/Makefile.am (noinst_HEADERS): New variable.
* gpg/t-support.h: New file.
* gpgsm/Makefile.am (noinst_HEADERS): New variable.
* gpgsm/t-support.h: New file.

2003-05-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Adapt to new syntax.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-eventloop.c (main): Likewise.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.

2003-05-28 Marcus
Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Rewrite recipient management.
* gpg/t-encrypt-sign.c (main): Likewise.
* gpg/t-encrypt.c (main): Likewise.
* gpg/t-export.c (main): Likewise.
* gpgsm/t-encrypt.c (main): Likewise.
* gpgsm/t-export.c (main): Likewise.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (TESTS): Order t-keylist and t-keylist-sig after
t-import.
* gpg/t-edit.c (edit_fnc): Fix primary UID for keylisting tests.
* gpg/t-keylist.c: Change order of user IDs.
* gpg/t-keylist-sig.c: Likewise.
* gpg/t-import.c: Add support for gpg in CVS.

2003-05-27 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Remove TEST_OUT_CB.
(main): Likewise.
* gpg/t-trustlist.c (main): Access ITEM directly.

* (t-decrypt-verify.c, t-decrypt.c, t-edit.c, t-encrypt-sign.c,
t-encrypt-sym.c, t-sign.c, t-signers.c): Include <unistd.h>.
(passphrase_cb): Rewritten.
* t-edit.c (edit_fnc): Rewritten.

2003-05-04 Marcus Brinkmann <marcus@g10code.de>

*
gpg/t-keylist-sig.c (main): Remove timestamp check.

* gpgsm/t-keylist.c: Add check for timestamp.

* gpg/Makefile.am (TESTS): Add t-keylist-sig.
* gpg/t-keylist-sig.c: New file.

2003-04-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c (main): Do not call print_op_info.
(print_op_info): Function removed.

* gpg/t-keylist.c: Rewritten.
* gpgsm/t-keylist.c (main): Rewritten.
* gpg/t-edit.c (main): Do not use gpgme_key_get_as_xml. Use
gpgme_key_unref instead gpgme_key_release.
* gpg/t-signers.c (main): Use gpgme_key_unref instead
gpgme_key_release.

2003-04-29 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-trustlist.c: Rewritten.

* gpg/t-verify.c (main): Rewritten.
* gpg/t-decrypt-verify.c: Rewritten.
* gpgsm/t-verify.c (main): Rewritten.

2003-04-28 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-decrypt.c (main): Rewritten.

* gpg/t-decrypt.c: Rewritten.

* gpg/t-signers.c: Rewritten.

2003-04-27 Marcus Brinkmann <marcus@g10code.de>

*
gpg/t-encrypt-sign.c (check_result): Rewritten.

* gpg/t-sign.c: Rewritten.
* gpgsm/t-sign.c: Rewritten.
* gpg/t-encrypt.c: Check for invalid recipients.
* gpgsm/t-encrypt.c: Likewise.

* gpg/t-import.c (check_result): Really use FPR.
* gpgsm/t-import.c (check_result): Rewritten.

2003-04-25 Marcus Brinkmann <marcus@g10code.de>

 * gpg/t-import.c: Rewritten.

 * gpgsm/t-genkey.c: Rewritten.
 * gpgsm/Makefile.am (noinst_PROGRAMS): Add t-genkey.
 * gpg/t-genkey.c: Include <stdlib.h>.
(main): Check result->fpr before checking its length.

2003-04-24 Marcus Brinkmann <marcus@g10code.de>

 * gpg/t-genkey.c: Rewritten to match new semantics.

2003-02-06 Marcus Brinkmann <marcus@g10code.de>

 * gpg/t-decrypt.c (passphrase_cb): Fix to new prototype.
 * gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
 * gpg/t-edit.c (passphrase_cb): Likewise.
 * gpg/t-encrypt-sign.c (passphrase_cb): Likewise.
 * gpg/t-encrypt-sym.c (passphrase_cb): Likewise.
 * gpg/t-sign.c (passphrase_cb): Likewise.
 *
gpg/t-signers.c (passphrase_cb): Likewise.

2003-01-30 Marcus Brinkmann <marcus@g10code.de>

 * t-engine-info.c: Use file_name instead path throughout.

 * Makefile.am (TESTS): Add t-engine-info.
 * t-engine-info.c: New file.
 * gpg/t-encrypt.c (main): Don't print engine info.
 * gpg/t-eventloop.c (main): Likewise.
 * gpg/t-encrypt-sign.c (main): Likewise.
 * gpgsm/t-encrypt.c (main): Likewise.

2002-12-24 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/t-verify.c (main): Adjust caller of gpgme_op_verify.
 * gpg/t-verify.c (main): Likewise.
 * gpg/t-decrypt-verify.c (main): Likewise for
gpgme_op_decrypt_verify.

2002-12-23 Marcus Brinkmann <marcus@g10code.de>

 * gpgsm/Makefile.am (./gpgsm.conf): Add a faked system time to
avoid certification's expiry.
 * gpgsm/t-encrypt.c (main): Use the short certification name.

2002-11-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-genkey.c (main): Add missing argument to gpgme_op_genkey
invocation.

2002-10-09 Marcus Brinkmann
<marcus@g10code.de>

* gpg/t-decrypt.c (print_data): Update to new gpgme_data_read
interface, and use gpgme_engine_check_version instead
gpgme_check_version.
* gpg/t-decrypt-verify.c (print_data): Likewise.
* gpg/t-edit.c (main): Likewise.
* gpg/t-encrypt.c (print_data): Likewise.
* gpg/t-encrypt-sign.c (print_data): Likewise.
* gpg/t-encrypt-sym.c (print_data): Likewise.
* gpg/t-eventloop.c (print_data): Likewise.
* gpg/t-export.c (print_data): Likewise.
* gpg/t-sign.c (print_data): Likewise.
* gpg/t-signers.c (print_data): Likewise.
* gpgsm/t-decrypt.c (print_data): Likewise.
* gpgsm/t-encrypt.c (print_data): Likewise.
* gpgsm/t-export.c (print_data): Likewise.
* gpgsm/t-sign.c (print_data): Likewise.
* gpg/t-verify.c (main): Likewise for gpgme_op_verify.
* gpgsm/t-verify.c (main): Likewise for gpgme_op_verify.
* t-data.c (read_once_test): Likewise.
(write_test): Update for new behaviour of data objects.
(main): Remove type test.

2002-09-30 Werner Koch <wk@gnupg.org>

*
gpgsm/t-keylist.c (doit): Add arg SECRET.
(main): Add option --secret.

2002-09-28 Marcus Brinkmann <marcus@g10code.de>

* t-version.c: Include <string.h>. Reported by Stphane Corthsy.

2002-09-02 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-keylist.c (main): Test PATTERN for NULL before printing.
Reported by Dr. Stefan Dalibor <Dr.Stefan.Dalibor@bfa.de>.

2002-08-01 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-edit.c: Also add a test for the expire command (testing
the passphrase callback).

2002-07-28 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-edit.c: New file.
* gpg/Makefile (TESTS): Add t-edit.

2002-07-25 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c (main): Change type of I to size_t and
rename to LEN.
* gpg/t-verify.c (main): Likewise. Submitted by Stphane
Corthsy.

2002-07-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-eventloop.c: New file.
* gpg/Makefile (TESTS): Add t-eventloop.

2002-06-26 Werner Koch <wk@gnupg.org>

*
gpgsm/t-import.c (print_op_info): New.
(main): Print operation info.

2002-06-25 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (DISTCLEANFILES): new.

2002-06-25 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (TESTS): Add t-export.
gpgsm/t-export.c: New file.

2002-06-20 Werner Koch <wk@gnupg.org>

* gpgsm/t-sign.c (main): Also test a normal signature.

* gpg/Makefile (TESTS_ENVIRONMENT): Set GPG_AGENT_INFO empty.
* gpg/t-signers.c, gpg/t-sign.c, gpg/t-encrypt-sym.c
* gpg/t-encrypt-sign.c, gpg/t-decrypt.c
* gpg/t-decrypt-verify.c (main): Changed the GPG_AGENT_INFO check to
match the one in ../../gpgme/rungpg.c.

2002-06-12 Werner Koch <wk@gnupg.org>

* gpgsm/t-keylist.c (doit): Print operation info if available.

2002-06-10 Werner Koch <wk@gnupg.org>

* gpgsm/t-verify.c (print_sig_stat): Print the error token.

2002-06-04 Werner Koch <wk@gnupg.org>

* gpgsm/t-encrypt.c (main): Add a simple option parser and allow
to specify an encryption
key.

2002-05-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (all-local): Remove dependency on ./secring.gpg.
(./secring.gpg): Remove target, and move all rules for this target
to ...
(./pubring.gpg): ... here. This was necessary because GnuPG 1.0.7
does create an empty secring.gpg file when importing public keys.

2002-05-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c (validity_string): New.
(print_sig_stat): Print expire time and validity.
(status_string): Add new exipred stati.

2002-05-03 Werner Koch <wk@gnupg.org>

* gpg/t-verify.c (validity_string): New.
(print_sig_stat): Print expire time and validity.
(status_string): Add new exipred stati.

2002-04-05 Marcus Brinkmann <marcus@g10code,de>

* gpgsm/Makefile.am (./trustlist.txt): Put more into this file to
prevent use of gpg-agent.
(./gpg-agent.conf): Remove target.
(all-local): Remove ./gpg-agent.conf.

2002-04-05 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c
(main): Use gpgme_engine_check_version instead
gpgme_check_engine.
* gpgsm/t-encrypt.c (main): Likewise.

2002-03-06 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sym.c: New file.

* gpg/Makefile.am (TESTS): Add t-encrypt-sym.

2002-03-05 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): Remove random_seed, which is now
in DISTCLEANFILES.

2002-03-04 Werner Koch <wk@gnupg.org>

* gpg/Makefile.am (DISTCLEANFILES): Added.

2002-03-03 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-verify.c (main): Add a few more sanity checks, and a check
for normal signatures.

2002-02-26 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-encrypt-sign.c: New file.
* gpg/Makefile.am (TESTS): Add t-encrypt-sign.

2002-02-13 Werner Koch <wk@gnupg.org>

* gpgsm/Makefile.am (private-keys-v1.d): Don't
fail when the directory already exists.

2002-02-12 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (CLEANFILES): New target.
(distclean-local): Rename to
...
(clean-local): ... this.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (./private-keys-v1.d/$(key_id).key): Fix rule.

2002-02-09 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-genkey.c: New file (not added to Makefile.am because of
gpg-agent bug).

2002-02-08 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (key_id): Update value.
(all-local): Add .key to keyid filename.
(./private-keys-v1.d/$(key_id)): Renamed to ...
(./private-keys-v1.d/$(key_id).key): ... this.

(all-local): Add ./gpgsm.conf, ./trustlist.txt.
(./gpgsm.conf, ./trustlist.txt): New target.
* gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Renamed to ...
* gpgsm/32100C27173EF6E9C4E9A25D3D69F86D37A4F939: ... this.

2002-01-30 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-import.c (print_op_info): New function.
(main): Use it.

2002-01-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-signers.c (passphrase_cb): Change type of r_hd to void**.
* gpg/t-sign.c (passphrase_cb):
Likewise.
* gpg/t-decrypt-verify.c (passphrase_cb): Likewise.
* gpg/t-decrypt.c (passphrase_cb): Likewise.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/t-decrypt-verify.c: Don't include `mcheck.h'. Reported by
Stphane Corthsy.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (EXTRA_DIST): Add missing line continuation.

2001-12-19 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile.am (EXTRA_DIST): Add $(key_id).

2001-12-16 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/Makefile: Rename `pubcerts.kbx' to `pubring.kbx'.

2001-12-15 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c (check_two_contexts): Set protocols.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-sign.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-sign.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-decrypt.c: New file.
* gpgsm/567064FE6D14A17B2D811ABB407728BC558AA455: Likewise.

* gpgsm/Makefile.am (TESTS): Add
t-decrypt.
(key_id): New variable.
(all-local): New target ./private-keys-v1.d/$(key_id) added.
(./private-keys-v1.d/$(key_id)): New target.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-verify.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-verify.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpg/Makefile.am (GPG): Set to @GPG_PATH@.
(./pubring.gpg): Use $(GPG) instead gpg.
(./secring.gpg): Likewise.

* gpgsm/t-import.c (main): Remove third test case.
* gpgsm/Makefile.am (GPGSM): Set to @GPGSM@.
(all-local): New target.
(./pubcerts.kbx): Likewise.
* gpgsm/t-encrypt.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-encrypt.

2001-12-14 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/t-keylist.c: New file.
* gpgsm/Makefile.am (TESTS): Add t-keylist.

2001-12-13 Marcus Brinkmann <marcus@g10code.de>

* gpgsm/cert_dfn_pca01.der: New file.
* gpgsm/cert_dfn_pca15.der: Likewise.
* gpgsm/cert_g10code_test1.der: Likewise.
* gpgsm/t-import.c: Likewise.
*
gpgsm/Makefile.am (EXTRADIST): Add new files.
(TESTS): Add t-import.

2001-11-22 Marcus Brinkmann <marcus@g10code.de>

* gpg/: New directory.
* Makefile.am, t-verify.c, t-encrypt.c, t-signers.c, t-trustlist.c,
t-sign.c, t-keylist.c, t-import.c, t-genkey.c, t-export.c,
t-decrypt-verify.c, t-decrypt.c, t-version.c, t-data.c, mkdemodirs.
cipher-1.asc, cipher-2.asc, geheim.txt, pubdemo.asc, pubkey-1.asc,
secdemo.asc, seckey-1.asc): Move to sub directory gpg/.

* gpg/Makefile.am (INCLUDES): Include gpgme/, not include/ and
intl/.
(LDD): Correct relative path to gpgme library.
(TESTS): Remove t-version and t-data.
* gpg/t-verify.c, gpg/t-encrypt.c, gpg/t-signers.c, gpg/t-trustlist.c,
gpg/t-sign.c, gpg/t-keylist.c, gpg/t-import.c, gpg/t-genkey.c,
gpg/t-export.c, gpg/t-decrypt-verify.c, gpg/t-decrypt.c,
t-version.c, t-data.c): Include gpgme.h, not "../gpgme/gpgme.h".

* Makefile.am: New file.
* gpgsm/: New directory.
* gpgsm/Makefile.am: New file.

2001-11-16 Marcus
Brinkmann <marcus@g10code.de>

* Makefile.am (TESTS): Add t-decrypt-verify.
* t-decrypt-verify.c: New file.
* cipher-2.asc: Likewise.

2001-11-02 Marcus Brinkmann <marcus@g10code.de>

* t-data.c: Include stddef.h.
(read_once_test): Change type of READ to size_t.
(read_test): Likewise.
(write_test): Likewise.

2001-10-29 Marcus Brinkmann <marcus@g10code.de>

* t-signers.c: New file.
* Makefile.am (TESTS): Add t-signers.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TEST_ENVIRONMENT): Revert last change.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (TEST_ENVIRONMENT): Set environment to $(srcdir),
not current directory.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* t-data.c (write_test): New function.
(main): Invoke write_test for all rounds except TEST_OUT_CB.

2001-10-22 Marcus Brinkmann <marcus@g10code.de>

* Makefile.am (INCLUDES): Remove spurious duplicate to silence
automake.

2001-10-16 Marcus Brinkmann <marcus@g10code.de>

*
t-version.c: New file.
* t-data.c: Likewise.
* t-data-1.txt: Likewise.
* t-data-2.txt: Likewise.
* Makefile.am (TESTS): Add t-version, t-data.

2001-09-17 Werner Koch <wk@gnupg.org>

* t-keylist.c (check_two_contexts): New.

2001-09-03 Werner Koch <wk@gnupg.org>

* t-encrypt.c (print_op_info): New and use it after each operation.

2001-08-28 Werner Koch <wk@gnupg.org>

* t-sign.c (print_op_info): New and use it after each operation.

2001-03-15 Werner Koch <wk@gnupg.org>

* t-keylist.c (doit): List subkeys too, show caps.

2001-02-13 Werner Koch <wk@gnupg.org>

* t-verify.c (print_sig_stat): Repaled ulong by unsigned long
because we don't use the config stuff here.

2001-02-12 Werner Koch <wk@gnupg.org>

* tests/t-verify.c (print_sig_stat): Print info about the keys.

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-*- mode: org -*-
#+TITLE: What's New in the GPGME Python Bindings and Documentation
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* What's New
 :PROPERTIES:
 :CUSTOM_ID: new-stuff
 :END:

Version:	0.0.1
GPGME Version:	1.13.0
Author:	Ben McGinnes <ben@gnupg.org>
Author GPG Key:	DB4724E6FA4286C92B4E55C4321E4E2373590E5D
Language:	Australian English, British English
xml:lang:	en-AU, en-GB, en

Last time the most obviously new thing was adding the /What's New/
section to the HOWTO. Now it's moving it out of the HOWTO.

** New in GPGME 1130
  :PROPERTIES:
   :CUSTOM_ID: new-stuff-1-13-0
  :END:

Additions since GPGME 1.12.0 include:

- Moving the /What's New/ section out of the basic [[file:gpgme-python-howto.org][HOWTO]] document and
 into its own file so as to more readily include other documents
 beyond that HOWTO.
- Moving the preceding, archival, segments into [[file:what-was-new.org][another file]].
- Added =gpg.version.versionintlist= to make it easier for Python
 developers to check for a specific version number, even with beta
 versions (it will drop the "-betaN" part).
- Added expanded detail on issues pertaining to installing for Windows
 users.
- Bindings enter [[file:maintenance-mode][maintenance mode]] from January, 2019.
- Added documentation on maintenance mode and what changes can be made
 to the code when in that status. Essentially that boils down to bug

fixes only and no feature requests.
- The import-keys-hkp.py example script, which uses the =hkp4py=
module to search the SKS servers for a key, has been
tightened up to
search for both hexadecimal key IDs and user ID strings with reduced
chance of unnecessary repitition. There may still be some
repetition if a key includes a user ID matching the hexadecimal
value of a key ID.
000
*H
010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1.0,U%DFN Top Level Certification Authority1!0 *H
certify@pca.dfn.de0
001102164724Z
011230180000Z010 UDE1!0U
Deutsches Forschungsnetz10UDFN-PCA1+0)U"DFN Server Certification Authority1!0 *H
certify@pca.dfn.de0"0
*H
0
W`r;wXu)QYHm1t]4?|-.B(iw6G01N>[mQSwC'muw~E'l-M
+<[A|F)F%
ZiRaW=OC,,meKW@J-*<,L}:Bnm-kv
EYBmu tt[-%,R+n0j0U00U0U{upz*D\
v0Ux0v09753http://www.pca.dfn.de/dfnpca/certify/ssl/dfnpca.crx09753http://www.pca.dfn.de/dfnpca/certify/ssl/dfn
pca.crl0 `HB0) `HBhttps://mystic.pca.dfn.de/0A `HB42http://www.pca.dfn.de/dfnpca/policy/wwwpolicy.html0 `HB
This certificate was issued by the DFN-PCA, the Top
Level Certification Authority of the German Research
Network (Deutsches Forschungsnetz, DFN).
The key owner's identity was authenticated in
accordance with the DFN World Wide Web Policy, v1.00! `HBcgi/check-rev.cgi?0
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+ZYG| UCA|PzYFnTj@SA)/<HU+4t?@g?pb5w'Z;dqLi9\(d=
,}h?c(MeM44=Qe/_^^JyYN/61&jPFXifP&#;/KZ
1 xOK?ps

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Version 2.1, February 1999

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with the Library, with the complete machine-readable "work that
uses the Library", as object code and/or source code, so that the
user can modify the Library and then relink to produce a modified
executable containing the modified Library. (It is understood
that the user who changes the contents of definitions files in the
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
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performing this distribution.

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That's all there is to it!
1543830060
##Sketch 1 2
document()
layout('A4',1)
fp((0,0,0))
ft(1)
Fn('Helvetica-Bold')

Fs(18)
dstyle('Text')
fp((0,1,0.498))
ft(1)
lp((0,0,0))
lw(0.283465)
lc(1)
lj(0)
ld(())
la1()
la2()
dstyle('Application Box')
layer('Layer 1',1,1,0,0,(0,0,0))
lw(1)
r(0,0,0,0,688.145,44.1554)
lw(1)
r(0,0,0,0,682.363,85.0359)
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(605.383,329.758,0)
bs(605.383,230.546,0)
lw(1)
r(0,0,0,0,807.414,53.6148)
lp((0.392,0.584,0.929))
lw(4.25)
b()
bs(480.134,240.945,0)
bs(480.358,325.277,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(474.803,432.284,0)
bs(475.334,360.243,0)
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(354.331,432.284,0)
bs(352.806,361.417,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(212.598,432.284,0)

bs(212.598,361.417,0)
fp((0.999,1,0.4))
lw(0.283465)
r(70.5968,0,0,-56.6929,191.608,488.976,0.0603744,0.151107)
lw(1)
r(0,0,0,0,88.5492,390.805)
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(226.772,524.409,0)
bs(226.772,488.976,0)
lp((0.392,0.584,0.929))
lw(4.25)
b()
bs(403.937,528.718,0)
bs(403.937,488.976,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1,
 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(240.945,432.284,0)
bs(240.574,394.994,0)
bs(595.276,396.85,0)
bs(595.276,361.417,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(333.071,432.284,0)
bs(333.07,425.196,0)
bs(333.07,382.677,0)
bs(240.945,382.677,0)
bs(240.945,361.417,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.347,318.897,354.331,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica-Bold')
Fs(10)
txt('GPG',(1,0,0,0.905764,344.004,335.686))
G_()
G()

fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3464,446.763,354.33,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('GpgConf',(0.552654,0,0,0.500564,481.802,340.184),1,1)
G_()
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.347,191.338,354.331,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('GpgSM',(0.552654,0,0,0.500574,226.376,340.185),1,1)
G_()
lp((0.392,0.584,0.929))
lw(4.25)
b()
bs(347.244,325.984,0)
bs(347.244,325.984,0)
bs(347.244,255.118,0)
bs(304.724,255.118,0)
bs(304.724,226.771,0)
lp((0.392,0.584,0.929))
lw(4.25)
b()
bs(233.858,325.984,0)
bs(233.858,255.118,0)
bs(276.378,255.118,0)
bs(276.378,226.771,0)
fp((0,0,0))
le()
lw(1)
Fn('Palatino-Roman')
txt('2008-07-17',(0.608301,0,0,0.608301,708.661,65.8308))
lw(1)
r(0,0,0,0,750.427,153.265)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1,

1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(219.685,325.984,0)
bs(219.685,198.425,0)
bs(219.685,162.992,0)
G()
fp((1,1,1))
lw(0.283465)
r(113.386,0,0,-42.5196,35.4333,162.992,0.0670228,0.151107)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('LDAP
Server',(0.552654,0,0,0.552654,92.1261,148.819),1,1)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('(CRLs, Certificates)',(0.552654,0,0,0.552654,92.1261,134.646),1,1)
G_()
G()
fp((1,1,1))
lw(0.283465)
r(113.386,0,0,-42.5196,35.4331,99.2125,0.0670228,0.151107)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('HTTP Server',(0.552654,0,0,0.552654,92.1259,85.0394),1,1)
fp((0,0,0))
lw(0.283465)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('(CRLs)',(0.552654,0,0,0.552654,92.1259,70.8662),1,1)

G_()
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.866,0,0,-31.2962,191.338,158.855,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('DirMngr',(0.552654,0,0,0.552654,224.02,142.978),1,1)
G_()
lw(2)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(219.15,126.18,0)
bs(219.685,77.9528,0)
bs(155.906,77.9528,0)
lp((0.392,0.584,0.929))
lw(3)
b()
bs(233.858,127.559,0)
bs(233.858,99.2125,0)
bs(276.378,99.2125,0)
bs(276.378,85.0393,0)
lp((0.392,0.584,0.929))
lw(3)
b()
bs(248.031,127.559,0)
bs(248.031,113.386,0)
bs(375.59,113.386,0)
bs(375.59,85.0393,0)
G()
fp((1,0.647,0.31))
lw(0.283465)
r(99.2124,0,0,-28.3464,333.07,85.0393,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Certificate

Cache',(0.552654,0,0,0.552654,382.606,69.8548),1,1)
fp((1,0.647,0.31))
lw(0.283465)
r(70.5589,0,0,-28.3464,248.031,85.0393,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('CRL Cache',(0.552654,0,0,0.552654,284.147,70.6936),1,1)
G_()
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(503.149,240.945,0)
bs(503.149,283.464,0)
bs(588.189,283.465,0)
bs(588.189,325.984,0)
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(503.149,283.464,0)
bs(503.149,283.464,0)
bs(361.417,283.464,0)
bs(361.417,325.984,0)
lw(1)
la2(([(-4.0,
3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(361.417,283.464,0)
bs(205.512,283.465,0)
bs(205.512,325.984,0)
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(574.015,85.0393,0)
bs(574.015,141.732,0)
bs(262.204,141.732,0)
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(602.361,85.0393,0)
bs(602.361,170.079,0)
bs(439.37,170.079,0)
bs(439.37,311.811,0)
bs(460.629,311.811,0)
bs(460.629,325.984,0)

lw(1)
ld((5, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(389.763,240.945,0)
bs(389.763,269.291,0)
bs(290.551,269.291,0)
bs(290.551,340.157,0)
bs(262.204,340.157,0)
lw(1)
ld((5, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(389.763,269.291,0)
bs(559.843,269.291,0)
bs(559.843,333.071,0)
bs(574.016,333.071,0)
lw(1)
ld((5, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(488.976,85.0393,0)
bs(488.976,127.559,0)
bs(389.763,127.559,0)
bs(389.763,212.598,0)
lw(2)
ld((1,
 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(205.512,127.559,0)
bs(205.512,113.386,0)
bs(170.079,113.386,0)
bs(170.079,141.732,0)
bs(155.906,141.732,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(622.961,356.76,0)
bs(622.961,518.503,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3459,573.199,354.33,0.0670228,0.151107)
fp((0,0,0))
le()

```
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('GpgAgent',(0.552654,0,0,0.500554,608.238,340.185),1,1)
G_()
lp((0.392,0.584,0.929))
lw(4.25)
b()
bs(721.712,467.717,0)
bs(721.712,297.838,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3464,686.278,297.637,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('SCdaemon',(0.552654,0,0,0.500564,721.316,283.492),1,1)
G_()
fp((1,0.647,0.31))
lw(0.283465)
lj(1)
r(86.162,0,0,-117.493,679.192,566.929,0.181818,0.333333)
G()
fp((0,0,0))
le()
lw(1)
Fn('Helvetica-Bold')
Fs(18)
txt('Smartcard',(0.552654,0,0,0.552654,698.127,491.036))
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-31.2962,686.279,557.593,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('Card
 Reader',(0.552654,0,0,0.552654,721.318,541.975),1,1)
G_()
G()
fp((0.999,1,0.4))
```

lw(0.283465)
r(73.6353,0,0,-41.2944,587.066,565.703,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('PIN Entry',(0.57675,0,0,0.729211,623.632,545.097),1,1)
G_()
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(643.758,340.157,0)
bs(643.758,340.157,0)
bs(707.539,340.158,0)
bs(707.539,304.724,0)
lw(1)
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(574.016,283.465,0)
bs(587.066,283.464,0)
bs(686.278,283.464,0)
G()
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(98.9053,325.985,0)
bs(98.9053,240.945,0)
G()
fp((0.999,1,0.4))
lw(0.283465)
r(70.5589,0,0,-28.3464,63.7795,354.331,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('WatchGnuPG',(0.552654,0,0,0.552654,98.8185,338.713),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(70.5589,0,0,-28.1194,63.7795,240.718,0.0670228,0.168178)
fp((0,0,0))

le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('Log
 Socket',(0.552654,0,0,0.552654,98.8175,225.1),1,1)
G_()
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(85.0392,0,0,-28.3464,446.457,240.945,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Config Files',(0.552654,0,0,0.552654,485.621,226.772),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(85.0392,0,0,-28.3464,545.669,85.0394,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Config Files',(0.552654,0,0,0.552654,584.834,70.8662),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(84.6546,0,0,-27.3609,347.245,239.959,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')

Fs(18)
txt('Help
 Files',(0.552654,0,0,0.552654,388.252,224.705),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(84.6546,0,0,-27.3609,446.457,85.0394,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Help Files',(0.552654,0,0,0.552654,487.464,69.7854),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(85.0392,0,0,-28.3464,248.032,240.945,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Keybox Files',(0.552654,0,0,0.552654,289.59,226.322),1,1)
G_()
G()
fp((1,0.647,0.31))
lw(0.283465)
r(70.866,0,0,-28.3464,574.016,240.945,0.0670228,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(18)
txt('Private Keys',(0.552654,0,0,0.552654,609.449,226.772),1,1)
G_()
G()
fp((0,0,0))

```
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(24)
txt('Scute',(0.552654,0,0,0.599958,224.978,465.775),1,1)
fp((0,0,0))
le()
lw(1)
Fn('Times-Roman')
Fs(10)
txt('(pkcs#11)',(1,0,0,1.08559,206.081,445.011))
G_()
G()
fp((0.999,1,0.4))
lw(0.283465)
r(198.827,0,0,-56.6929,304.322,488.976,0.0603744,0.151107)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
Fn('Helvetica-Bold')
Fs(36)
txt('GPGME
 Library',(0.552654,0,0,0.552654,404.952,457.853),1,1)
G_()
G()
lw(1)
style('Application Box')
r(197.598,0,0,-42.5187,304.724,566.928,0.0152672,0.0677968)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
txt('GPGME aware Application',(0.98062,0,0,0.937018,334.892,540.985))
G_()
G()
lw(1)
style('Application Box')
r(127.829,0,0,-41.7496,162.992,566.159,0.0152672,0.0677968)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
```

```
txt('Legacy Application',(174.688,540.01))
G_()
G()
G()
lp((0.392,0.584,0.929))
lw(4.25197)
b()
bs(749.296,162.296,0)
bs(705.89,162.296,0)
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0,
 -3.0), (-4.0, 3.0)], 1))
b()
bs(705.89,100.083,0)
bs(744.472,100.083,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(705.89,131.189,0)
bs(744.472,131.189,0)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('execute/access',(0.31891,0,0,0.280771,726.951,87.3768),1,1)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('closely linked',(0.31891,0,0,0.280771,724.715,149.589),1,1)
fp((0,0,0))
le()
lw(1)
Fn('Helvetica')
Fs(14)
style('Text')
txt('Assuan protocol',(0.31891,0,0,0.280771,728.535,118.483),1,1)
G_()
lw(1)
r(56.6929,0,0,-92.126,701.575,170.079)
G_()
```

lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(248.031,325.984,0)
bs(248.031,297.638,0)
bs(538.583,297.638,0)
bs(538.583,340.157,0)
bs(566.929,340.157,0)
lp((0.392,0.584,0.929))
lw(3.25)
ld((1, 1))
la2(([(-4.0, 3.0), (2.0, 0.0), (-4.0, -3.0), (-4.0, 3.0)], 1))
b()
bs(375.591,325.984,0)
bs(375.591,304.724,0)
bs(531.496,304.724,0)
bs(531.496,347.244,0)
bs(566.929,347.244,0)
guidelayer('Guide
 Lines',1,0,0,1,(0,0,1))
grid((0,0,7.08661,7.08661),1,(0,0,1),'Grid')
Just GNU it!
Just GNU it!
Just GNU it!
-*- mode: org -*-
#+TITLE: GNU Privacy Guard (GnuPG) Made Easy Python Bindings
#+AUTHOR: Ben McGinnes
#+LATEX_COMPILER: xelatex
#+LATEX_CLASS: article
#+LATEX_CLASS_OPTIONS: [12pt]
#+LATEX_HEADER: \usepackage{xltxtra}
#+LATEX_HEADER: \usepackage[margin=1in]{geometry}
#+LATEX_HEADER: \setmainfont[Ligatures={Common}]{Times New Roman}
#+LATEX_HEADER: \author{Ben McGinnes <ben@gnupg.org>}

* GPGME Python Bindings
 :PROPERTIES:
 :CUSTOM_ID: top
 :END:

** Contents
  :PROPERTIES:
  :CUSTOM_ID: contents
  :END:

- [[file:short-history][A short history of the project]]
- [[file:what-is-new][What's New]]
 - [[file:maintenance-mode][Maintenance Mode]] (from January, 2019)
- [[file:what-was-new][What Was New]]
- [[file:gpgme-python-howto][GPGME Python Bindings HOWTO]]
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```
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  under certain conditions; type `show c' for details.
```

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

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

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```
\input texinfo    @c -*- texinfo -*-
@c %**start of header
@setfilename short-history.info
@settitle A Short History of the GPGME bindings for Python
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title A Short History of the GPGME bindings for Python
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top A Short History of the GPGME bindings for Python
@end ifnottex
```

@menu
* Overview::
* Relics of the past::

@detailmenu
--- The Detailed Node Listing ---

Overview

* In the beginning::
* Keeping the flame alive::
* Passing the torch::
* Coming full circle::

Relics of the past

* The Annoyances of Git::
* The Perils of PyPI::

The Perils of PyPI

* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::

@end detailmenu
@end menu

@node Overview
@chapter Overview

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab
0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian English, British English
@item xml:lang:
@tab en-AU, en-GB, en
@end multitable

The GPGME Python bindings passed through many hands and numerous

phases before, after a fifteen year journey, coming full circle to
return to the source. This is a short explanation of that journey.

@menu
* In the beginning::
* Keeping the flame alive::
* Passing the torch::
* Coming full circle::
@end menu

@node In the beginning
@section In the beginning

In 2002 John Goerzen released PyME; Python bindings for the GPGME
module which utilised the current release of Python of the time and
SWIG.@footnote{In all likelihood this would have been Python 2.2 or possibly
Python 2.3.} Shortly after creating it and ensuring it worked he stopped
supporting it, though he left his work available on his Gopher
site.

@node Keeping
 the flame alive
@section Keeping the flame alive

A couple of years later the project was picked up by Igor Belyi and
actively developed and maintained by him from 2004 to 2008. Igor's
whereabouts at the time of this document's creation are unknown,
but the current authors do hope he is well. We're assuming (or
hoping) that life did what life does and made continuing untenable.

@node Passing the torch
@section Passing the torch

In 2014 Martin Albrecht wanted to patch a bug in the PyME code and
discovered the absence of Igor. Following a discussion on the PyME
mailing list he became the new maintainer for PyME, releasing
version 0.9.0 in May of that year. He remains the maintainer of
the original PyME release in Python 2.6 and 2.7 (available via
PyPI).

@node Coming full circle
@section Coming full circle

In 2015 Ben McGinnes approached Martin about a Python 3 version,
while investigating how complex a task this would be the task ended
up being completed. A subsequent discussion
 with Werner Koch led
to the decision to fold the Python 3 port back into the original

GPGME release in the languages subdirectory for non-C bindings
under the module name of @samp{pyme3}.

In 2016 this PyME module was integrated back into the GPGME project
by Justus Winter. During the course of this work Justus adjusted
the port to restore limited support for Python 2, but not as many
minor point releases as the original PyME package supports. During
the course of this integration the package was renamed to more
accurately reflect its status as a component of GPGME. The @samp{pyme3}
module was renamed to @samp{gpg} and adopted by the upstream GnuPG team.

In 2017 Justus departed G10code and the GnuPG team. Following this
Ben returned to maintain of gpgme Python bindings and continue
building them from that point.

@node Relics of the past
@chapter Relics of the past

There are a few things, in addition to code specific factors, such as
SWIG itself, which are worth noting here.

@menu
*
 The Annoyances of Git::
* The Perils of PyPI::
@end menu

@node The Annoyances of Git
@section The Annoyances of Git

As anyone who has ever worked with git knows, submodules are
horrible way to deal with pretty much anything. In the interests
of avoiding migraines, that was skipped with addition of the PyME
code to GPGME.

Instead the files were added to a subdirectory of the @samp{lang/}
directory, along with a copy of the entire git log up to that point
as a separate file within the @samp{lang/python/docs/} directory.@footnote{The entire PyME git log and other
preceding VCS logs are
located in the @samp{gpgme/lang/python/docs/old-commits.log} file.}
As the log for PyME is nearly 100KB and the log for GPGME is
approximately 1MB, this would cause considerable bloat, as well as
some confusion, should the two be merged.

Hence the unfortunate, but necessary, step to simply move the
files. A regular repository version has been maintained should it
be possible to implement this

better in the future.

@node The Perils of PyPI
@section The Perils of PyPI

The early port of the Python 2 @samp{pyme} module as @samp{pyme3} was never added to PyPI while the focus remained on development and testing during 2015 and early 2016. Later in 2016, however, when Justus completed his major integration work and subsequently renamed the module from @samp{pyme3} to @samp{gpg}, some prior releases were also provided through PyPI.

Since these bindings require a matching release of the GPGME libraries in order to function, it was determined that there was little benefit in also providing a copy through PyPI since anyone obtaining the GPGME source code would obtain the Python bindings source code at the same time. Whereas there was the potential to sew confusion amongst Python users installing the module from PyPI, only to discover that without the relevant C files, header files or SWIG compiled binaries, the Python module did them little good.

There are only two files on PyPI
which might turn up in a search
for this module or a sample of its content:

@enumerate
@item
gpg (1.8.0) - Python bindings for GPGME GnuPG cryptography library
@item
pyme (0.9.0) - Python support for GPGME GnuPG cryptography library
@end enumerate

@menu
* GPG 180 - Python bindings for GPGME GnuPG cryptography library::
* PyME 090 - Python support for GPGME GnuPG cryptography library::
@end menu

@node GPG 180 - Python bindings for GPGME GnuPG cryptography library
@subsection GPG 180 - Python bindings for GPGME GnuPG cryptography library

This is the most recent version to reach PyPI and is the version of the official Pyhon bindings which shipped with GPGME 1.8.0. If you have GPGME 1.8.0 installed and @emph{only} 1.8.0 installed, then it is probably safe to use this copy from PyPI.

As there have been a lot of changes since the release of GPGME 1.8.0, the GnuPG Project recommends not using this version of the module and instead installing the current version of GPGME along

with the
 Python bindings included with that package.

@node PyME 090 - Python support for GPGME GnuPG cryptography library
@subsection PyME 090 - Python support for GPGME GnuPG cryptography library

This is the last release of the PyME bindings maintained by Martin
Albrecht and is only compatible with Python 2, it will not work
with Python 3. This is the version of the software from which the
port from Python 2 to Python 3 code was made in 2015.

Users of the more recent Python bindings will recognise numerous
points of similarity, but also significant differences. It is
likely that the more recent official bindings will feel "more
pythonic."

For those using Python 2, there is essentially no harm in using
this module, but it may lack a number of more recent features
added to GPGME.

@bye
commit 2145348ec54c6027f2ea20f695de0277e2871405
Merge: 348ba88 2036f1a
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 03:04:19 2015 +1000

  Merge pull request #4 from Hasimir/master

  history

commit 2036f1a0a670a0561993e195c458059220b36114
Merge: dbabf0c 348ba88
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:57:44 2015 +1000

  Merge branch 'master' of github:adversary-org/pyme3

commit dbabf0cf1f2985755c2293b619011832e34faa9c
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:52:23 2015 +1000

  Added a short history

  * A (very) brief summary of the project's history since 2002.
  * Deals with why the commit log in the GPGME repo does not include the
    history of PyME.
  * Mentions that intact git repos will be maintained, but not where they
    are (one will be on github, another will be in a user directory on

playfair.gnupg.org).

docs/Short_History.rst | 57 ++
1 file
changed, 57 insertions(+)

commit 348ba883424778c711c04ae9b66035ccdb36eb8c
Merge: 127d0a5 7c37a27
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:21:34 2015 +1000

Merge pull request #3 from Hasimir/master

Version release preparation

commit 7c37a27a6845c58222d4d947c2efbe38e955b612
Merge: f692cff 127d0a5
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:17:14 2015 +1000

Merge branch 'master' of github:adversary-org/pyme3

commit f692cff50a89c2c61acdbd3d7dd60f5ce3cd15af
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:09:44 2015 +1000

TODO update

* Removed reference to GitHub, replaced with impending new home at gnupg.org.

docs/TODO.rst | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit bd5ccf9e3bfe69fa681613757577e87b72ca08ec
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 02:00:44 2015 +1000

Version bump

* Bumped version number to 0.9.1 to keep it somewhat in line with the
existing
PyME project, even though there will be some divergence at
some point (or even re-merging, depending on how many of the Python 3
modifications can be back-ported to the Python 2 version).
* Updated the author and copyright information to reflect the two
current authors (Martin and I).
* Replaced Igor's contact details with mine.
* Replaced project home page with the GnuPG one.

pyme/version.py | 16 +++++++++-------
1 file changed, 9 insertions(+), 7 deletions(-)

commit ec167512f4ca88d8f6e89e2ae831798c8283b4df
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 01:48:01 2015 +1000

  README preparation.

  * Changes in preparation for impending move of code to the GnuPG git
    server as a part of GPGME.

README.rst | 14 +++++++-------
1 file changed, 7 insertions(+), 7 deletions(-)

commit 8a48515e884c36b5bdb24a13cb4d2e49f4ee6f17
Author: Ben McGinnes <ben@adversary.org>
Date: Wed May 6 01:43:53 2015 +1000

  TODO moved to docs

   * As it says.

TODO.rst | 25 -------------------------
docs/TODO.rst | 25 +++++++++++++++++++++++++
2 files changed, 25 insertions(+), 25 deletions(-)

commit f968c777472f01f308f6e57eac1740bf5c76c205
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 16:52:13 2015 +1000

  Started another TODO file.

TODO.rst | 25 +++++++++++++++++++++++++
1 file changed, 25 insertions(+)

commit 127d0a56fa9f7ad1d4fb39d0b529b890a8d67365
Merge: db72dea 44837f6
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 14:59:44 2015 +1000

  Merge pull request #2 from Hasimir/master

  Minor editing.

commit 44837f6e50fc539c86aef1f75a6a3538b02029ea
Author: Ben McGinnes <ben@adversary.org>

Date: Sun May 3 14:56:55 2015 +1000

  Minor editing.

  * Fixed another URL.
  * Changed Py3 version's version number to v0.9.1-beta0.

README.rst | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit db72deaae19c3513391df040bcaf66a88d9213af
Merge: db34286 48eb185
Author:
 Ben McGinnes <ben@adversary.org>
Date: Sun May 3 14:26:11 2015 +1000

  Merge pull request #1 from Hasimir/master

  Links

commit 48eb1856cb0739cc9f0b9084da9d965e1fc7fddd
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 14:22:30 2015 +1000

  Links

  * Fixed URLs for authors.
  * Updated my entry to point to github location.
  ** I strongly suspect the result of this work will be concurrent
     projects, so preparing for that eventuality with this repo.

README.rst | 8 ++++----
1 file changed, 4 insertions(+), 4 deletions(-)

commit db3428659783f30b9a76204403daedf9fc4cf7cf
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 11:29:00 2015 +1000

  Explicit over Implicit ...

  ... isn't just for code.

  * Removed the 2to3 working directory and its contents.
  * Made the README.rst file a little more clear that this branch is for
    Python 3 (set Python 3.2 as a fairly arbitrary requirement for the
    moment, but will probably raise this
to 3.3).

```
2to3/2to3-output-remaining.log |  60 ---
2to3/2to3-output-setup.log     |  35 --
2to3/2to3-output.log           | 950 ----------------------------------------
README.rst                     |  10 +-
4 files changed, 7 insertions(+), 1048 deletions(-)

commit 3edf07a4ba8a86af3a33246234d6e133074862af
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 11:19:41 2015 +1000

  Added authors.

  * In alphabetical order.
  * Mine will need updating once Martin and I have decided what to do
    regarding the two main branches.

README.rst | 12 ++++++++++++
1 file changed, 12 insertions(+)

commit 811eb14b53e8856312d99f46b77215f7f9bd672c
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 10:23:00 2015 +1000

  Docs and other things.

  * Now able to import pyme.core without error, indicates port process is
    successful.
  * Code is *not* compatible with the Python 2 version.
  * Will need to consider making this a parallel project with the
 master
    branch.
  * Got rid of the .org TODO file.
  * Changed the README to use the reST file extension since it's full of
    reST anyway.

2to3/TODO.org |  5 -----
README.rst    | 32 ++++++++++++++++++++++++++++++++
README.txt    | 32 --------------------------------
3 files changed, 32 insertions(+), 37 deletions(-)

commit 79e784bdcce1de6f7856921b5431044c62c6f015
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 10:18:40 2015 +1000

  Fixed another implicit import by making it explicit.  Hopefully this is the last one.

pyme/util.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)
```

commit 2b52b46ccda3e7abcc50eed0745062259d698661
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:16:01 2015 +1000

  Fixed another implicit import by making it explicit.

pyme/errors.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 409c8fd565e21f23cd41daaeffc867e6d23a0863
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 10:08:22
 2015 +1000

  Bytes vs. Unicode

  * Trying PyBytes instead of PyUnicode.

gpgme.i | 14 +++++++-------
helpers.c | 8 ++++----
2 files changed, 11 insertions(+), 11 deletions(-)

commit d8164aa2ae98bf8c807c16e2d9be12c5fbea7cfd
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 09:22:58 2015 +1000

  String to Unicode

  * Replaced all instances of PyString with PyUnicode (and hoping there's
    no byte data in there).

gpgme.i | 14 +++++++-------
helpers.c | 8 ++++----
2 files changed, 11 insertions(+), 11 deletions(-)

commit bd99b7865656e559b17c419c6b64b412a22c6c44
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 09:17:06 2015 +1000

  PyInt_AsLong

  * Replaced all instances of PyInt with PyLong, as per C API docs.

gpgme.i | 4 ++--
helpers.c | 8 ++++----
2 files changed, 6 insertions(+), 6 deletions(-)

commit 3c91e2ccf8ca788b51e3308e292c6b64888fdb15
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 05:59:36 2015 +1000

 Import correction

   * Once pygpgme.py is generated and moved, it will be in the right
     directory for the explicit "from . import pygpgme" to be correct.

pyme/core.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 23a49e7070812ff1ce138d8d4cc46d0b80328897
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 05:38:29 2015 +1000

   The -py3 flag.

Makefile | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit b1549587d6db5e33081b9c20f75d1348a1d25938
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 05:01:42 2015 +1000

   Fixed indentation - 4.

pyme/core.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit a685142ce46761ee6f5176e90717176e38e0d24f
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 05:00:16 2015 +1000

   Fixed indentation - 3.

pyme/core.py | 5 ++---
1 file changed, 2 insertions(+), 3 deletions(-)

commit 488a70b490cc64eb1c47d2483cb2f4079c6767f7
Author: Ben McGinnes <ben@adversary.org>
Date: Sun
 May 3 04:53:21 2015 +1000

   Pet Peeve

   def pet_peeve(self):

```
      peeve = print("people who don't press return after a colon!")
```

```
  FFS!

pyme/core.py | 5 +++--
1 file changed, 3 insertions(+), 2 deletions(-)

commit a5d38eb47d64bb17bb609fe594dae2aca480bac9
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:47:54 2015 +1000

  Fixed indentation - 2.

pyme/core.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 476a207f732b8559abb1ea3c23147c0e34804730
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:46:01 2015 +1000

  Fixed indentation.

pyme/core.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit 0572900eba9bcd9b0283c7d8e022e8972f06f9f8
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:43:49 2015 +1000

  Replaced all tabs with 4 spaces.

pyme/core.py | 18 +++++++++---------
1 file changed, 9 insertions(+), 9 deletions(-)

commit 78c0b7677e94ce1e11b8cdb833a9064527187330
Author: Ben McGinnes <ben@adversary.org>
Date:
  Sun May 3 04:39:07 2015 +1000

  SWIG flags in the wrong place.

Makefile | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit dfa7f2589963494a8f89277560d8c1116604a3c8
Author: Ben McGinnes <ben@adversary.org>
Date:   Sun May 3 04:35:09 2015 +1000
```

Fixed subprocess call for swig (again).

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 249bfd8c714dcda53127b99b6cc8a6c7c4a99f20
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 04:32:40 2015 +1000

Fixed subprocess call for swig.

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6fd7e719cf4c975f466ceb39835db7007df36fb2
Author: Ben McGinnes <ben@adversary.org>
Date: Sun May 3 03:51:48 2015 +1000

Linking swig to py3

* Changed the swig invocations to run with the -python -py3 flags explicitly.

Makefile | 4 ++--
setup.py | 2 +-
2 files changed, 3 insertions(+), 3 deletions(-)

commit 7a6b584f50ed6ddc8617a642185eea1f24ff791a
Author:
Ben McGinnes <ben@adversary.org>
Date: Sat May 2 11:12:00 2015 +1000

String fun

* streamlined confdata details, including decoding strom binary to string.

setup.py | 4 +---
1 file changed, 1 insertion(+), 3 deletions(-)

commit f7fd3f270592021a95a8f779bfe85ac18f4e390b
Author: Ben McGinnes <ben@adversary.org>
Date: Sat May 2 10:46:59 2015 +1000

Open File

* Removed deprecated file() and replaced with open().

examples/PyGtkGpgKeys.py | 2 +-
examples/pygpa.py | 6 +++---

```
gpgme-h-clean.py        | 2 +-
3 files changed, 5 insertions(+), 5 deletions(-)

commit 4227d486f9558015e7e548d71085e58e1b50ec08
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 10:36:15 2015 +1000

  print() fix

  * Makefile includes a python print, changed from statement to function.

Makefile | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 406f7f2567b701502186fe0a325dc2a3491ff7f8
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 10:28:42
 2015 +1000

  Updated Makefile

  * set make to use python3 instead.
  * This will mean a successful port may need to be maintained separately
    from the original python2 code instead of merged, but ought to be able
    to share most things.  So maybe merge with separated make files or a
    pre-make script to set python2 or python3 prior to building ... decide
    later, after it works.

Makefile | 6 +++---
1 file changed, 3 insertions(+), 3 deletions(-)

commit 90b3efa5b193d37e08dc9b4ee766ba9ebc9412af
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 10:15:20 2015 +1000

  Env and a little license issue

  * Updated all the /usr/bin/env paths to point to python3.
  * Also fixed the hard coded /usr/bin/python paths.
  * Updated part of setup.py which gave the impression this package was
    only licensed under the GPL (it's actually licensed under the LGPL as
    well, essentially the same dual licensing as the GPGME library).

examples/PyGtkGpgKeys.py
  | 2 +-
examples/delkey.py      | 2 +-
examples/encrypt-to-all.py | 2 +-
examples/exportimport.py   | 2 +-
```

```
examples/genkey.py         | 2 +-
examples/inter-edit.py     | 2 +-
examples/pygpa.py          | 2 +-
examples/sign.py           | 2 +-
examples/signverify.py     | 2 +-
examples/simple.py         | 2 +-
examples/t-edit.py         | 2 +-
examples/testCMSgetkey.py  | 2 +-
examples/verifydetails.py  | 2 +-
gpgme-h-clean.py           | 2 +-
setup.py                   | 4 ++--
15 files changed, 16 insertions(+), 16 deletions(-)

commit 1a4b55dbccd2774344352e579130bf494bc5fa4b
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 08:50:54 2015 +1000

  Removed extraneous files.

  * The two .bak files.

pyme/errors.py.bak |  46 ----------------------
setup.py.bak       | 116 ----------------------------------------------------
2 files changed, 162 deletions(-)

commit 208879d4f2a6d0514c3f8ee2fc0da8bba42350de
Author: Ben McGinnes <ben@adversary.org>
Date:
  Sat May 2 08:19:37 2015 +1000

  Added TODO.org

  * TODO list in Emacs org-mode.
  * Will eventually be removed along with this entire directory when the
    porting process is complete.

2to3/TODO.org | 5 +++++
1 file changed, 5 insertions(+)

commit 1548bf201059638675c5387c6f124d4b703363a9
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 07:58:40 2015 +1000

  2to3 conversion of remaining files

  * Ran the extended version against all the unmodified python files.
  * Only pyme/errors.py required additional work.
```

```
2to3/2to3-output-remaining.log | 60 ++++++++++++++++++++++++++++++++++++++++++++
pyme/errors.py                 |  2 +-
pyme/errors.py.bak             | 46 ++++++++++++++++++++++++++++++++++++++++++++
3 files changed, 107 insertions(+), 1 deletion(-)

commit 1230650bc6bbe4c14d1284f7877aa932f3e86eb4
Author: Ben McGinnes <ben@adversary.org>
Date:   Sat May 2 07:50:39 2015 +1000

    2to3 conversion of setup.py

    * Ran extended 2to3 command to produce
   python 3 code for setup.py.
    * Effectively testing for what to run against the other originally
      unmodified py2 files.

2to3/2to3-output-setup.log |  35 +++++++++++++++
setup.py                   |   7 ++-
setup.py.bak               | 116 +++++++++++++++++++++++++++++++++++++++++++++++++
3 files changed, 154 insertions(+), 4 deletions(-)

commit edad44955f59aa879e95a369591717fb19eec6b7
Author: Ben McGinnes <ben@adversary.org>
Date:   Fri May 1 21:50:07 2015 +1000

    Removing 2to3 generated .bak files.

    * Not really needed with a real VCS, but couldn't hurt to have them for
      a couple of revisions.  ;)

examples/PyGtkGpgKeys.py.bak          | 663 ----------------
examples/encrypt-to-all.py.bak        |  65 --
examples/exportimport.py.bak          |  75 --
examples/genkey.py.bak                |  45 -
examples/inter-edit.py.bak            |  57 --
examples/pygpa.py.bak                 | 1457 ---------------------------------
examples/sign.py.bak
                |  31 -
examples/signverify.py.bak            |  78 --
examples/simple.py.bak                |  52 --
examples/t-edit.py.bak                |  59 --
examples/testCMSgetkey.py.bak         |  45 -
examples/verifydetails.py.bak         | 100 ---
gpgme-h-clean.py.bak                  |  42 -
pyme/callbacks.py.bak                 |  47 --
pyme/constants/data/__init__.py.bak   |   4 -
pyme/constants/keylist/__init__.py.bak |   4 -
pyme/constants/sig/__init__.py.bak    |   4 -
```

```
pyme/core.py.bak                   | 463 ----------
pyme/util.py.bak                   |  72 --
pyme/version.py.bak                |  41 -
20 files changed, 3404 deletions(-)

commit 1cfc3c969f885ed191610bffbbd60ac23fdd349e
Author: Ben McGinnes <ben@adversary.org>
Date:   Fri May 1 21:45:50 2015 +1000

  2to3 conversion log

  * The output of the command to convert the code from Python 2 to 3.
  * Note: this contains the list of files which were not modified
 and
    which will or may need to be modified.

2to3/2to3-output.log | 950 ++++++++++++++++++++++++++++++++++++++++++++++++++++
1 file changed, 950 insertions(+)

commit 078f6cf878aa62d12704fab424198a613a24cc8c
Author: Ben McGinnes <ben@adversary.org>
Date:   Fri May 1 21:36:58 2015 +1000

  2to3 conversion of pyme master

  * Branch from commit 459f3eca659b4949e394c4a032d9ce2053e6c721
  * Ran this: or x in `find . | egrep .py$` ; do 2to3 -w $x; done ;
  * Multiple files not modified, will record elsewhere (see next commit).

examples/PyGtkGpgKeys.py           |  10 +-
examples/PyGtkGpgKeys.py.bak       | 663 +++++++++++++++++++++++++++++++++++++++
```

```
examples/t-edit.py                  |  12 +-
examples/t-edit.py.bak              |  59 ++
examples/testCMSgetkey.py           |   8 +-
examples/testCMSgetkey.py.bak       |  45 +
examples/verifydetails.py           |  34 +-
examples/verifydetails.py.bak       | 100 +++
gpgme-h-clean.py                    |   2 +-
gpgme-h-clean.py.bak                |  42 +
pyme/callbacks.py                   |   6 +-
pyme/callbacks.py.bak               |  47 ++
pyme/constants/data/__init__.py
      |   2 +-
pyme/constants/data/__init__.py.bak   |   4 +
pyme/constants/keylist/__init__.py    |   2 +-
pyme/constants/keylist/__init__.py.bak |   4 +
pyme/constants/sig/__init__.py        |   2 +-
pyme/constants/sig/__init__.py.bak    |   4 +
pyme/core.py                        |  26 +-
pyme/core.py.bak                    | 463 ++++++++++++
pyme/util.py                        |   6 +-
pyme/util.py.bak                    |  72 ++
pyme/version.py                     |   2 +-
pyme/version.py.bak                 |  41 +
40 files changed, 3515 insertions(+), 111 deletions(-)

commit 459f3eca659b4949e394c4a032d9ce2053e6c721
Merge: c5966ab dae7f14
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Wed Jul 9 10:48:33 2014 +0100

  Merged in jerrykan/pyme/fix_setup_26 (pull request #1)

  Provide support for using setup.py with Python v2.6

commit dae7f14a54e6c2bde0ad4da7308cc7fc0d0c0469
Author: John Kristensen
 <john.kristensen@dpipwe.tas.gov.au>
Date:   Wed Jul 9 15:54:39 2014 +1000

  Provide support for using setup.py with Python v2.6

  The setup.py script uses subprocess.check_output() which was introduced
  in Python v2.7. The equivalent functionality can be achieved without
  adding much extra code and provide support for Python v2.6.

setup.py | 4 +++-
1 file changed, 3 insertions(+), 1 deletion(-)
```

commit c5966abec9d772b3922d32650da288fd50a217be
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Thu May 15 19:43:00 2014 +0100

  README.txt in ReST, including headlines

README.txt | 8 ++++++--
1 file changed, 6 insertions(+), 2 deletions(-)

commit 43ee8c6f34fa9b6d3975aa6ea60b3d4a741fa721
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Thu May 15 19:37:15 2014 +0100

  README.txt in ReST

README.txt | 25 ++++++++++++++----------
1 file changed, 13 insertions(+), 12 deletions(-)

commit f71a369484cba8801df23ccc5842335fa496c0df
Author:
 Martin Albrecht <martinralbrecht@googlemail.com>
Date: Thu May 15 19:28:12 2014 +0100

  added MANIFEST.in and README.txt (instead of .md)

MANIFEST.in | 6 ++++++
README.md | 27 ---------------------------
README.txt | 27 +++++++++++++++++++++++++++
3 files changed, 33 insertions(+), 27 deletions(-)

commit d0d6755229f920b0bed043e9c2731de2d57c096c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Tue May 13 09:52:44 2014 +0100

  added mailing list to README

README.md | 19 +++++++++++++++---
1 file changed, 16 insertions(+), 3 deletions(-)

commit 30ca60ddf92df684de261cb24c83c68089be0adc
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sun May 11 13:34:28 2014 +0100

  we don't need a separate out of date ChangeLog file

ChangeLog | 802 --
1 file changed, 802 deletions(-)

```
commit 8263f1a6d38fdb7f5f3dd5c7e28f83caa7528a08
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:
  Sun May 11 13:32:31 2014 +0100

  adding README.md

README.md | 14 +++++++++++++
1 file changed, 14 insertions(+)

commit 3fc71b47e9e14b0b984801c28d722723baa4b406
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 10 15:43:06 2014 +0100

  ValueError -> RuntimeError

setup.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit eec432abea56296b9fa36aac0d10926a2335b739
Merge: eea6537 d2738b3
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 10 15:41:02 2014 +0100

  Merge branch 'master' of bitbucket.org:malb/pyme

  Conflicts:
    setup.py

commit eea6537921061b4dcfc54e00a99d3fa110e71433
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 10 15:39:51 2014 +0100

  check for swig

setup.py | 8 ++++++++
1 file changed, 8 insertions(+)

commit 53867bf9715ee1b4ea873bf5e2fbb7d9740a2b4a
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 10 15:35:04 2014 +0100

   more friendly error message if gpgme is missing

setup.py | 8 +++++++-
1 file changed, 7 insertions(+), 1 deletion(-)

commit d2738b35d63b1492d69641c5466103685f2d3a30
```

Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 10 15:35:04 2014 +0100

  more friendly error message if gpgme is missing

setup.py | 8 +++++++-
1 file changed, 7 insertions(+), 1 deletion(-)

commit c0b01240becf8ba6cf1d4c1f64b2cb4c056f5163
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Fri May 9 15:20:24 2014 +0100

  version number should have three digits

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 6672bb60b9bec60d38e854016c48658b57774578
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Wed May 7 15:11:08 2014 +0100

  bump version number for upcoming release

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 7bd6de700f33ca5d1f27bc16ebbd401f21d2e788
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:
  Sat May 3 19:36:25 2014 +0100

  bump version number to indicate changes

pyme/version.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 4fb6bd9b3f47c1a343242ac83b326cacd12a136e
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 3 19:34:07 2014 +0100

  pyme instead of pygpgme

setup.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 9548973138d78241a45ccb82333b25f2cf36ce7d
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date: Sat May 3 19:31:10 2014 +0100

```
   dirty hack to make 'python setup.py install' work

setup.py | 7 ++++---
1 file changed, 4 insertions(+), 3 deletions(-)

commit a961d7eab9db478b7e603324bc5d243bd3c84bad
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 3 19:05:44 2014 +0100

   moved everything down to the toplevel directory

COPYING                          |  340 ++
COPYING.LESSER                   |  510 +++
ChangeLog
                    |  802 +++++
INSTALL                          |   15 +
Makefile                         |  104 +
debian/README.Debian             |    6 +
debian/changelog                 |   93 +
debian/control                   |   34 +
debian/copyright                 |   25 +
debian/docs                      |    2 +
debian/examples                  |    2 +
debian/rules                     |   99 +
examples/PyGtkGpgKeys.glade      | 1394 ++++++++
examples/PyGtkGpgKeys.gladep     |    8 +
examples/PyGtkGpgKeys.py         |  663 ++++
examples/delkey.py               |   34 +
examples/encrypt-to-all.py       |   65 +
examples/exportimport.py         |   75 +
examples/genkey.py               |   45 +
examples/inter-edit.py           |   57 +
examples/pygpa.glade             | 5546 ++++++++++++++++++++++++++++++++
examples/pygpa.py
                 | 1457 ++++++++
examples/sign.py                 |   31 +
examples/signverify.py           |   78 +
examples/simple.py               |   52 +
examples/t-edit.py               |   59 +
examples/testCMSgetkey.py        |   45 +
examples/verifydetails.py        |  100 +
gpgme-h-clean.py                 |   42 +
gpgme.i                          |  267 ++
helpers.c                        |  154 +
helpers.h                        |   36 +
pyme/COPYING                     |  340 --
pyme/COPYING.LESSER              |  510 ---
```

```
pyme/ChangeLog                    | 802 -----
pyme/INSTALL                      |  15 -
pyme/Makefile                     | 104 -
pyme/__init__.py                  | 137 +
pyme/callbacks.py                 |  47 +
pyme/constants/__init__.py        |   7 +
pyme/constants/data/__init__.py   |   4
 +
pyme/constants/data/encoding.py   |  20 +
pyme/constants/event.py           |  20 +
pyme/constants/import.py          |  20 +
pyme/constants/keylist/__init__.py |  4 +
pyme/constants/keylist/mode.py    |  20 +
pyme/constants/md.py              |  20 +
pyme/constants/pk.py              |  20 +
pyme/constants/protocol.py        |  20 +
pyme/constants/sig/__init__.py    |   4 +
pyme/constants/sig/mode.py        |  20 +
pyme/constants/sigsum.py          |  20 +
pyme/constants/status.py          |  20 +
pyme/constants/validity.py        |  20 +
pyme/core.py                      | 463 +++
pyme/debian/README.Debian         |   6 -
pyme/debian/changelog             |  93 -
pyme/debian/control               |  34 -
pyme/debian/copyright             |  25 -
pyme/debian/docs                  |   2 -
pyme/debian/examples              |
 2 -
pyme/debian/rules                 |  99 -
pyme/errors.py                    |  46 +
pyme/examples/PyGtkGpgKeys.glade  | 1394 --------
pyme/examples/PyGtkGpgKeys.gladep |   8 -
pyme/examples/PyGtkGpgKeys.py     | 663 ----
pyme/examples/delkey.py           |  34 -
pyme/examples/encrypt-to-all.py   |  65 -
pyme/examples/exportimport.py     |  75 -
pyme/examples/genkey.py           |  45 -
pyme/examples/inter-edit.py       |  57 -
pyme/examples/pygpa.glade         | 5546 ------------------------------
pyme/examples/pygpa.py            | 1457 --------
pyme/examples/sign.py             |  31 -
pyme/examples/signverify.py       |  78 -
pyme/examples/simple.py           |  52 -
pyme/examples/t-edit.py           |  59 -
pyme/examples/testCMSgetkey.py    |  45 -
pyme/examples/verifydetails.py    | 100 -
pyme/gpgme-h-clean.py             |  42 -
```

```
 pyme/gpgme.i                        | 267 --
pyme/helpers.c                       | 154 -
pyme/helpers.h                       |  36 -
pyme/pyme/__init__.py                | 137 -
pyme/pyme/callbacks.py               |  47 -
pyme/pyme/constants/__init__.py      |   7 -
pyme/pyme/constants/data/__init__.py |   4 -
pyme/pyme/constants/data/encoding.py |  20 -
pyme/pyme/constants/event.py         |  20 -
pyme/pyme/constants/import.py        |  20 -
pyme/pyme/constants/keylist/__init__.py |   4 -
pyme/pyme/constants/keylist/mode.py  |  20 -
pyme/pyme/constants/md.py            |  20 -
pyme/pyme/constants/pk.py            |  20 -
pyme/pyme/constants/protocol.py      |  20 -
pyme/pyme/constants/sig/__init__.py  |   4 -
pyme/pyme/constants/sig/mode.py      |  20 -
pyme/pyme/constants/sigsum.py        |  20 -
pyme/pyme/constants/status.py        |  20 -
pyme/pyme/constants/validity.py      |  20
 -
pyme/pyme/core.py                    | 463 ---
pyme/pyme/errors.py                  |  46 -
pyme/pyme/util.py                    |  72 -
pyme/pyme/version.py                 |  41 -
pyme/setup.py                        |  99 -
pyme/util.py                         |  72 +
pyme/version.py                      |  41 +
setup.py                             |  99 +
108 files changed, 13384 insertions(+), 13384 deletions(-)

commit 8148cdd424c434e833ce427612ea8c89abc6e41c
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Sat May 3 18:58:52 2014 +0100

  removing pyme-web

pyme-web/Makefile                    |  15 -
pyme-web/default.css                 |  37 --
pyme-web/doc/gpgme/ASCII-Armor.html  |  57 ---
pyme-web/doc/gpgme/Advanced-Key-Editing.html |  98 ----
pyme-web/doc/gpgme/Algorithms.html   |  47 --
pyme-web/doc/gpgme/Building-the-Source.html |  82 ----
 .../doc/gpgme/Callback-Based-Data-Buffers.html | 148 ------
pyme-web/doc/gpgme/Cancellation.html |  67 ---
pyme-web/doc/gpgme/Concept-Index.html | 186 -------
pyme-web/doc/gpgme/Context-Attributes.html |  52 --
pyme-web/doc/gpgme/Contexts.html     |  61 ---
```

pyme-web/doc/gpgme/Creating-Contexts.html | 49 --
pyme-web/doc/gpgme/Creating-Data-Buffers.html | 47 --
pyme-web/doc/gpgme/Creating-a-Signature.html | 143 ------
pyme-web/doc/gpgme/Crypto-Engine.html | 79 ---
pyme-web/doc/gpgme/Crypto-Operations.html | 67 ---
.../doc/gpgme/Cryptographic-Message-Syntax.html | 42 --
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html | 104 ----
pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html | 100 ----
pyme-web/doc/gpgme/Decrypt-and-Verify.html | 79 ---
pyme-web/doc/gpgme/Decrypt.html | 123 -----
pyme-web/doc/gpgme/Deleting-Keys.html | 67
---
pyme-web/doc/gpgme/Destroying-Contexts.html | 46 --
pyme-web/doc/gpgme/Destroying-Data-Buffers.html | 70 ---
pyme-web/doc/gpgme/Encrypt.html | 45 --
pyme-web/doc/gpgme/Encrypting-a-Plaintext.html | 147 ------
pyme-web/doc/gpgme/Engine-Configuration.html | 65 ---
pyme-web/doc/gpgme/Engine-Information.html | 119 -----
pyme-web/doc/gpgme/Engine-Version-Check.html | 48 --
pyme-web/doc/gpgme/Error-Codes.html | 133 -----
pyme-web/doc/gpgme/Error-Handling.html | 72 ---
pyme-web/doc/gpgme/Error-Sources.html | 89 ----
pyme-web/doc/gpgme/Error-Strings.html | 80 ---
pyme-web/doc/gpgme/Error-Values.html | 159 ------
pyme-web/doc/gpgme/Exchanging-Data.html | 58 ---
pyme-web/doc/gpgme/Exporting-Keys.html | 101 ----
pyme-web/doc/gpgme/Features.html | 59 ---
pyme-web/doc/gpgme/File-Based-Data-Buffers.html | 74
---
pyme-web/doc/gpgme/Function-and-Data-Index.html | 229 ---------
pyme-web/doc/gpgme/Generating-Keys.html | 144 ------
pyme-web/doc/gpgme/Getting-Started.html | 55 ---
pyme-web/doc/gpgme/Hash-Algorithms.html | 59 ---
pyme-web/doc/gpgme/Header.html | 53 --
.../doc/gpgme/I_002fO-Callback-Example-GDK.html | 85 ----
.../gpgme/I_002fO-Callback-Example-GTK_002b.html | 86 ----
.../doc/gpgme/I_002fO-Callback-Example-Qt.html | 99 ----
pyme-web/doc/gpgme/I_002fO-Callback-Example.html | 259 ----------
pyme-web/doc/gpgme/I_002fO-Callback-Interface.html | 142 ------
pyme-web/doc/gpgme/Importing-Keys.html | 171 -------
pyme-web/doc/gpgme/Included-Certificates.html | 70 ---
pyme-web/doc/gpgme/Information-About-Keys.html | 207 --------
.../doc/gpgme/Information-About-Trust-Items.html | 75 ---
pyme-web/doc/gpgme/Introduction.html | 53 --
pyme-web/doc/gpgme/Key-Listing-Mode.html
| 99 ----
pyme-web/doc/gpgme/Key-Management.html | 260 ----------
pyme-web/doc/gpgme/Key-Signatures.html | 130 -----

.../doc/gpgme/Largefile-Support-_0028LFS_0029.html | 110 -----
pyme-web/doc/gpgme/Library-Copying.html | 542 ----------
pyme-web/doc/gpgme/Library-Version-Check.html | 97 ----
pyme-web/doc/gpgme/Listing-Keys.html | 204 --------
pyme-web/doc/gpgme/Listing-Trust-Items.html | 88 ----
pyme-web/doc/gpgme/Locale.html | 69 ---
pyme-web/doc/gpgme/Manipulating-Data-Buffers.html | 45 --
pyme-web/doc/gpgme/Manipulating-Keys.html | 63 ---
pyme-web/doc/gpgme/Manipulating-Trust-Items.html | 62 ---
pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html | 107 ----
pyme-web/doc/gpgme/Multi-Threading.html | 93 ----
pyme-web/doc/gpgme/OpenPGP.html | 44 --
pyme-web/doc/gpgme/Overview.html | 57 ---
pyme-web/doc/gpgme/Passphrase-Callback.html
| 101 ----
pyme-web/doc/gpgme/Preparation.html | 54 --
pyme-web/doc/gpgme/Progress-Meter-Callback.html | 80 ---
pyme-web/doc/gpgme/Protocol-Selection.html | 60 ---
pyme-web/doc/gpgme/Protocols-and-Engines.html | 82 ----
pyme-web/doc/gpgme/Public-Key-Algorithms.html | 74 ---
.../doc/gpgme/Registering-I_002fO-Callbacks.html | 81 ---
pyme-web/doc/gpgme/Run-Control.html | 53 --
pyme-web/doc/gpgme/Selecting-Signers.html | 64 ---
pyme-web/doc/gpgme/Sign.html | 50 --
pyme-web/doc/gpgme/Signal-Handling.html | 61 ---
pyme-web/doc/gpgme/Signature-Notation-Data.html | 85 ----
pyme-web/doc/gpgme/Text-Mode.html | 63 ---
pyme-web/doc/gpgme/Trust-Item-Management.html | 68 ---
pyme-web/doc/gpgme/Using-Automake.html | 74 ---
pyme-web/doc/gpgme/Using-External-Event-Loops.html | 74 ---
pyme-web/doc/gpgme/Using-Libtool.html
| 44 --
pyme-web/doc/gpgme/Verify.html | 492 ----------
pyme-web/doc/gpgme/Waiting-For-Completion.html | 77 ---
pyme-web/doc/gpgme/index.html | 169 -------
pyme-web/doc/pyme/index.html | 164 -------
pyme-web/doc/pyme/pyme.callbacks.html | 42 --
.../doc/pyme/pyme.constants.data.encoding.html | 48 --
pyme-web/doc/pyme/pyme.constants.data.html | 29 --
pyme-web/doc/pyme/pyme.constants.event.html | 48 --
pyme-web/doc/pyme/pyme.constants.html | 39 --
pyme-web/doc/pyme/pyme.constants.import.html | 49 --
pyme-web/doc/pyme/pyme.constants.keylist.html | 29 --
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 49 --
pyme-web/doc/pyme/pyme.constants.md.html | 58 ---
pyme-web/doc/pyme/pyme.constants.pk.html | 50 --
pyme-web/doc/pyme/pyme.constants.protocol.html | 48 --
pyme-web/doc/pyme/pyme.constants.sig.html

```
        |  29 --
pyme-web/doc/pyme/pyme.constants.sig.mode.html     |  47 --
pyme-web/doc/pyme/pyme.constants.sigsum.html       |  55 ---
pyme-web/doc/pyme/pyme.constants.status.html       | 126 -----
pyme-web/doc/pyme/pyme.constants.validity.html     |  50 --
pyme-web/doc/pyme/pyme.core.html                   | 277 ----------
pyme-web/doc/pyme/pyme.errors.html                 |  82 ----
pyme-web/doc/pyme/pyme.html                        | 164 -------
pyme-web/doc/pyme/pyme.util.html                   |  81 ---
pyme-web/doc/pyme/pyme.version.html                |  37 --
pyme-web/index.html                                |  72 ---
112 files changed, 10551 deletions(-)

commit 684d95feb7e10e538a56fb1b27f1456111bacb60
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Mon Jan 6 17:44:20 2014 +0100

  fixing op_export_keys()

  the conversion of gpgme_key_t [] was restricted to gpgme_key_t [] with the
  name recv, i.e. only
 the use-cases of encryption were covered.

  see: http://sourceforge.net/mailarchive/forum.php?forum_name=pyme-
help&max_rows=25&style=nested&viewmonth=201309

pyme/gpgme.i | 6 +++---
1 file changed, 3 insertions(+), 3 deletions(-)

commit 658d23b95110d21eeb50abf4e74701a667521a88
Author: Martin Albrecht <martinralbrecht@googlemail.com>
Date:   Mon Jan 6 17:41:33 2014 +0100

  deleting CVSROOT

CVSROOT/checkoutlist | 13 ----------
CVSROOT/commitinfo   | 15 ----------
CVSROOT/config       | 21 ----------
CVSROOT/cvswrappers  | 19 ----------
CVSROOT/editinfo     | 21 ----------
CVSROOT/loginfo      | 26 ----------
CVSROOT/modules      | 26 ----------
CVSROOT/notify       | 12 ----------
CVSROOT/rcsinfo      | 13 ----------
CVSROOT/taginfo      | 20 ----------
CVSROOT/verifymsg    | 21 ----------
11 files changed, 207 deletions(-)
```

commit 576b555499c094c4786d42de9e59aa9826009b89
Author:
 convert-repo <devnull@localhost>
Date: Mon Jan 6 15:22:44 2014 +0000

  update tags

commit 2dcf0c5b702eb5a18c66ff1e42a72eaa7427af1d
Author: belyi <devnull@localhost>
Date: Wed Nov 26 02:38:33 2008 +0000

  Move Windows specific fix from helpers.c to helpers.h so that it works
  for edit callback as well as for the passphrase one.

pyme/helpers.c | 5 -----
pyme/helpers.h | 5 +++++
2 files changed, 5 insertions(+), 5 deletions(-)

commit 42a035f2ef62470fea7a7f8ee33a1297fa90a603
Author: belyi <devnull@localhost>
Date: Mon Nov 24 21:44:30 2008 +0000

  Update the way build directives are constructed on MinGW to have a bit
  more robust. Update PyMe build version to 0.8.1 in version.py

pyme/pyme/version.py | 2 +-
pyme/setup.py | 10 ++++++++--
2 files changed, 9 insertions(+), 3 deletions(-)

commit 3aaa20fbcba17066c9ffd580f5209946022793a2
Author: belyi <devnull@localhost>
Date: Mon Nov 24 06:57:11 2008 +0000

  Update changelog

pyme/debian/changelog
 | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)

commit 689ff46b2550547e3883f809a6dc40c22c3e137e
Author: belyi <devnull@localhost>
Date: Mon Nov 24 06:50:41 2008 +0000

  Fix hang problem on Windows when password is written to a filehandle.
  Fix the way path is constructed on MinGW platform.

pyme/helpers.c | 5 +++++
pyme/setup.py | 4 ++--

```
2 files changed, 7 insertions(+), 2 deletions(-)

commit 852a60d541d66cb56f40378182b976fd87a02c46
Author: belyi <devnull@localhost>
Date:   Sun Nov 23 04:31:31 2008 +0000

   Add Bernard's example testCMSgetkey.py and his updates for
   verifydetails.py

pyme/examples/testCMSgetkey.py | 45 ++++++++++++++++++++++++++++++++++++++++++
pyme/examples/verifydetails.py | 43 ++++++++++++++++++++++++++++++-----------
2 files changed, 77 insertions(+), 11 deletions(-)

commit f080527d9184f3360f0a8ef6136b9a188d8e7d2a
Author: belyi <devnull@localhost>
Date:   Thu May 29 18:29:37 2008 +0000

   Remove debian packaging for python2.3
 since it is removed from both
   testing and unstable dists.
   Update docs build target to have correct PYTHONPATH set.

pyme/Makefile         | 2 +-
pyme/debian/changelog | 4 +++-
pyme/debian/control   | 4 ++--
pyme/debian/rules     | 2 --
4 files changed, 6 insertions(+), 6 deletions(-)

commit c25d133fcbadf3c7f6e655586b4a05d6e3cf6f0b
Author: belyi <devnull@localhost>
Date:   Thu Apr 3 13:37:12 2008 +0000

   Forgot to adjust mainText margin. Doing it now.

pyme-web/default.css | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit 897286a54a32336d060cd03305cdecb7905f34f1
Author: belyi <devnull@localhost>
Date:   Thu Apr 3 13:00:11 2008 +0000

   Fix an error in default.css and make index.html "Standards Compliant".

pyme-web/default.css | 2 +-
pyme-web/index.html  | 7 ++++---
2 files changed, 5 insertions(+), 4 deletions(-)

commit 4e049212bd214449cc0ba1ce06e00782783f328a
```

Author: belyi <devnull@localhost>
Date: Thu Apr 3 12:38:42 2008 +0000

  Adjust spacing
between links.

pyme-web/default.css | 9 ++++++---
1 file changed, 6 insertions(+), 3 deletions(-)

commit cb2bddfbd77483b1deb14f2eab0715a03dd33fcd
Author: belyi <devnull@localhost>
Date: Wed Apr 2 22:50:21 2008 +0000

  Make style a big more IE friendly.

pyme-web/default.css | 15 ++++++++++----
1 file changed, 11 insertions(+), 4 deletions(-)

commit ad66f0a1bb01b46baac328e9fee439b35a60c232
Author: belyi <devnull@localhost>
Date: Wed Apr 2 11:58:32 2008 +0000

  Make GPGME documentation a bit more web friendly on the index.html page.

pyme-web/doc/gpgme/Algorithms.html | 2 +-
pyme-web/doc/gpgme/Concept-Index.html | 2 +-
pyme-web/doc/gpgme/Contexts.html | 2 +-
pyme-web/doc/gpgme/Error-Handling.html | 2 +-
pyme-web/doc/gpgme/Exchanging-Data.html | 2 +-
pyme-web/doc/gpgme/Function-and-Data-Index.html | 2 +-
pyme-web/doc/gpgme/Introduction.html | 4 +-
pyme-web/doc/gpgme/Library-Copying.html
       | 2 +-
pyme-web/doc/gpgme/Preparation.html | 2 +-
pyme-web/doc/gpgme/Protocols-and-Engines.html | 2 +-
pyme-web/doc/gpgme/index.html | 229 +------------------------
11 files changed, 12 insertions(+), 239 deletions(-)

commit 4f57c0ccb049d4442e7732e2d1d05dabffd2a21d
Author: belyi <devnull@localhost>
Date: Wed Apr 2 06:12:57 2008 +0000

  Add missing core.set_locale() to set default locale for contexts.

pyme/debian/changelog | 2 +-
pyme/pyme/core.py | 4 ++++
2 files changed, 5 insertions(+), 1 deletion(-)

```
commit acf7ead3dea8590cf9fe86b67bb125837ad6ed4f
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 05:50:24 2008 +0000

   Avoid leaks caused by keys.
   Add set/get methods for engine info.

pyme/debian/changelog | 10 ++++++++++
pyme/pyme/core.py     | 24 ++++++++++++++++++++++++
2 files changed, 34 insertions(+)

commit df4a2fb518adbb6420d95ce74af212c87abff7e7
Author: belyi <devnull@localhost>
Date:   Wed Apr 2
 04:04:41 2008 +0000

   Update index.html to reflect new versions on the web.

pyme-web/Makefile            | 3 ++-
pyme-web/doc/gpgme/index.html | 4 +---
pyme-web/index.html          | 4 ++--
3 files changed, 5 insertions(+), 6 deletions(-)

commit bd3ffc9bdf98d6aafde6b689c6c8215fa468612d
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 04:01:04 2008 +0000

   Update PyMe documentation to match 0.8.0 version of the package.

pyme-web/doc/pyme/index.html                    | 14 ++++++-----
pyme-web/doc/pyme/pyme.constants.keylist.mode.html |  1 +
pyme-web/doc/pyme/pyme.constants.protocol.html     |  4 ++-
pyme-web/doc/pyme/pyme.constants.status.html       |  9 ++++++
pyme-web/doc/pyme/pyme.core.html                   | 36 ++++++++++++++++++++----
pyme-web/doc/pyme/pyme.errors.html                 |  8 ++---
pyme-web/doc/pyme/pyme.html                        | 14 ++++++-----
pyme-web/doc/pyme/pyme.util.html                   | 17 ++++++++---
pyme-web/doc/pyme/pyme.version.html
             | 14 ++++++-----
9 files changed, 82 insertions(+), 35 deletions(-)

commit 6973a69a317608a0d0661590d701f4e3f3a21b32
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 02:35:24 2008 +0000

   Have a fix for Contents being put onto 'Function and Data Index' page.

pyme-web/doc/gpgme/Concept-Index.html          |   2 +-
```

```
pyme-web/doc/gpgme/Function-and-Data-Index.html | 153 +----------------------
pyme-web/doc/gpgme/index.html                   | 154 ++++++++++++++++++++++++-
3 files changed, 155 insertions(+), 154 deletions(-)

commit 086315964cbc2abad1187f306dcb9c72ac3257f3
Author: belyi <devnull@localhost>
Date:   Wed Apr 2 01:00:29 2008 +0000

  Update GPGME documentation. It's for v1.1.6 now.

pyme-web/doc/gpgme/ASCII-Armor.html               |  57 ++
pyme-web/doc/gpgme/Advanced-Key-Editing.html      |  98 +++
pyme-web/doc/gpgme/Algorithms.html                |  47 ++
pyme-web/doc/gpgme/Building-the-Source.html       |  82 +++
.../doc/gpgme/Callback-Based-Data-Buffers.html
   | 148 +++++
pyme-web/doc/gpgme/Cancellation.html              |  67 ++
pyme-web/doc/gpgme/Concept-Index.html             | 186 ++++++
pyme-web/doc/gpgme/Context-Attributes.html        |  52 ++
pyme-web/doc/gpgme/Contexts.html                  |  61 ++
pyme-web/doc/gpgme/Creating-Contexts.html         |  49 ++
pyme-web/doc/gpgme/Creating-Data-Buffers.html     |  47 ++
pyme-web/doc/gpgme/Creating-a-Signature.html      | 143 +++++
pyme-web/doc/gpgme/Crypto-Engine.html             |  79 +++
pyme-web/doc/gpgme/Crypto-Operations.html         |  67 ++
.../doc/gpgme/Cryptographic-Message-Syntax.html   |  42 ++
.../doc/gpgme/Data-Buffer-I_002fO-Operations.html | 104 ++++
pyme-web/doc/gpgme/Data-Buffer-Meta_002dData.html | 100 +++
pyme-web/doc/gpgme/Decrypt-and-Verify.html        |  79 +++
pyme-web/doc/gpgme/Decrypt.html                   | 123 ++++
pyme-web/doc/gpgme/Deleting-Keys.html             |  67 ++
pyme-web/doc/gpgme/Destroying-Contexts.html
      |  46 ++
pyme-web/doc/gpgme/Destroying-Data-Buffers.html   |  70 +++
pyme-web/doc/gpgme/Encrypt.html                   |  45 ++
pyme-web/doc/gpgme/Encrypting-a-Plaintext.html    | 147 +++++
pyme-web/doc/gpgme/Engine-Configuration.html      |  65 ++
pyme-web/doc/gpgme/Engine-Information.html        | 119 ++++
pyme-web/doc/gpgme/Engine-Version-Check.html      |  48 ++
pyme-web/doc/gpgme/Error-Codes.html               | 133 ++++
pyme-web/doc/gpgme/Error-Handling.html            |  72 +++
pyme-web/doc/gpgme/Error-Sources.html             |  89 +++
pyme-web/doc/gpgme/Error-Strings.html             |  80 +++
pyme-web/doc/gpgme/Error-Values.html              | 159 +++++
pyme-web/doc/gpgme/Exchanging-Data.html           |  58 ++
pyme-web/doc/gpgme/Exporting-Keys.html            | 101 +++
pyme-web/doc/gpgme/Features.html                  |  59 ++
pyme-web/doc/gpgme/File-Based-Data-Buffers.html   |  74 +++
```

pyme-web/doc/gpgme/Function-and-Data-Index.html
| 380 ++++++++++++
pyme-web/doc/gpgme/Generating-Keys.html | 144 +++++
pyme-web/doc/gpgme/Getting-Started.html | 55 ++
pyme-web/doc/gpgme/Hash-Algorithms.html | 59 ++
pyme-web/doc/gpgme/Header.html | 53 ++
.../doc/gpgme/I_002fO-Callback-Example-GDK.html | 85 +++
.../gpgme/I_002fO-Callback-Example-GTK_002b.html | 86 +++
.../doc/gpgme/I_002fO-Callback-Example-Qt.html | 99 +++
pyme-web/doc/gpgme/I_002fO-Callback-Example.html | 259 ++++++++
pyme-web/doc/gpgme/I_002fO-Callback-Interface.html | 142 +++++
pyme-web/doc/gpgme/Importing-Keys.html | 171 +++++
pyme-web/doc/gpgme/Included-Certificates.html | 70 +++
pyme-web/doc/gpgme/Information-About-Keys.html | 207 +++++++
.../doc/gpgme/Information-About-Trust-Items.html | 75 +++
pyme-web/doc/gpgme/Introduction.html | 53 ++
pyme-web/doc/gpgme/Key-Listing-Mode.html | 99 +++
pyme-web/doc/gpgme/Key-Management.html
| 260 ++++++++
pyme-web/doc/gpgme/Key-Signatures.html | 130 ++++
.../doc/gpgme/Largefile-Support-_0028LFS_0029.html | 110 ++++
pyme-web/doc/gpgme/Library-Copying.html | 542 ++++++++++++++++++
pyme-web/doc/gpgme/Library-Version-Check.html | 97 +++
pyme-web/doc/gpgme/Listing-Keys.html | 204 ++++++
pyme-web/doc/gpgme/Listing-Trust-Items.html | 88 +++
pyme-web/doc/gpgme/Locale.html | 69 +++
pyme-web/doc/gpgme/Manipulating-Data-Buffers.html | 45 ++
pyme-web/doc/gpgme/Manipulating-Keys.html | 63 ++
pyme-web/doc/gpgme/Manipulating-Trust-Items.html | 62 ++
pyme-web/doc/gpgme/Memory-Based-Data-Buffers.html | 107 ++++
pyme-web/doc/gpgme/Multi-Threading.html | 93 +++
pyme-web/doc/gpgme/OpenPGP.html | 44 ++
pyme-web/doc/gpgme/Overview.html | 57 ++
pyme-web/doc/gpgme/Passphrase-Callback.html | 101 +++
pyme-web/doc/gpgme/Preparation.html
| 54 ++
pyme-web/doc/gpgme/Progress-Meter-Callback.html | 80 +++
pyme-web/doc/gpgme/Protocol-Selection.html | 60 ++
pyme-web/doc/gpgme/Protocols-and-Engines.html | 82 +++
pyme-web/doc/gpgme/Public-Key-Algorithms.html | 74 +++
.../doc/gpgme/Registering-I_002fO-Callbacks.html | 81 +++
pyme-web/doc/gpgme/Run-Control.html | 53 ++
pyme-web/doc/gpgme/Selecting-Signers.html | 64 ++
pyme-web/doc/gpgme/Sign.html | 50 ++
pyme-web/doc/gpgme/Signal-Handling.html | 61 ++
pyme-web/doc/gpgme/Signature-Notation-Data.html | 85 +++
pyme-web/doc/gpgme/Text-Mode.html | 63 ++
pyme-web/doc/gpgme/Trust-Item-Management.html | 68 ++

```
pyme-web/doc/gpgme/Using-Automake.html            |  74 +++
pyme-web/doc/gpgme/Using-External-Event-Loops.html |  74 +++
pyme-web/doc/gpgme/Using-Libtool.html             |  44 ++
pyme-web/doc/gpgme/Verify.html
                  | 492 ++++++++++++++++
pyme-web/doc/gpgme/Waiting-For-Completion.html    |  77 +++
pyme-web/doc/gpgme/gpgme.html                     | 251 --------
pyme-web/doc/gpgme/gpgme_1.html                   |  76 ---
pyme-web/doc/gpgme/gpgme_10.html                  |  61 --
pyme-web/doc/gpgme/gpgme_11.html                  | 130 ----
pyme-web/doc/gpgme/gpgme_12.html                  |  82 ---
pyme-web/doc/gpgme/gpgme_13.html                  | 130 ----
pyme-web/doc/gpgme/gpgme_14.html                  | 108 ----
pyme-web/doc/gpgme/gpgme_15.html                  |  69 ---
pyme-web/doc/gpgme/gpgme_16.html                  | 169 -----
pyme-web/doc/gpgme/gpgme_17.html                  |  63 --
pyme-web/doc/gpgme/gpgme_18.html                  |  63 --
pyme-web/doc/gpgme/gpgme_19.html                  |  66 --
pyme-web/doc/gpgme/gpgme_2.html                   |  79 ---
pyme-web/doc/gpgme/gpgme_20.html                  | 120 ----
pyme-web/doc/gpgme/gpgme_21.html
                  | 102 ---
pyme-web/doc/gpgme/gpgme_22.html                  | 108 ----
pyme-web/doc/gpgme/gpgme_23.html                  | 237 -------
pyme-web/doc/gpgme/gpgme_24.html                  | 154 -----
pyme-web/doc/gpgme/gpgme_25.html                  | 248 --------
pyme-web/doc/gpgme/gpgme_26.html                  | 107 ----
pyme-web/doc/gpgme/gpgme_27.html                  |  80 ---
pyme-web/doc/gpgme/gpgme_28.html                  |  67 --
pyme-web/doc/gpgme/gpgme_29.html                  | 164 -----
pyme-web/doc/gpgme/gpgme_3.html                   |  86 ---
pyme-web/doc/gpgme/gpgme_30.html                  | 106 ----
pyme-web/doc/gpgme/gpgme_31.html                  | 232 -------
pyme-web/doc/gpgme/gpgme_32.html                  |  85 ---
pyme-web/doc/gpgme/gpgme_33.html                  | 223 -------
pyme-web/doc/gpgme/gpgme_34.html                  |  83 ---
pyme-web/doc/gpgme/gpgme_35.html                  |  70 ---
pyme-web/doc/gpgme/gpgme_36.html
                  |  63 --
pyme-web/doc/gpgme/gpgme_37.html                  |  66 --
pyme-web/doc/gpgme/gpgme_38.html                  |  86 ---
pyme-web/doc/gpgme/gpgme_39.html                  |  79 ---
pyme-web/doc/gpgme/gpgme_4.html                   |  83 ---
pyme-web/doc/gpgme/gpgme_40.html                  |  89 ---
pyme-web/doc/gpgme/gpgme_41.html                  |  99 ---
pyme-web/doc/gpgme/gpgme_42.html                  | 144 -----
pyme-web/doc/gpgme/gpgme_43.html                  | 152 -----
pyme-web/doc/gpgme/gpgme_44.html                  | 112 ----
```

pyme-web/doc/gpgme/gpgme_45.html | 101 ---
pyme-web/doc/gpgme/gpgme_46.html | 459 ----------
pyme-web/doc/gpgme/gpgme_47.html | 292 ---------
pyme-web/doc/gpgme/gpgme_48.html | 363 ----------
pyme-web/doc/gpgme/gpgme_49.html | 209 -------
pyme-web/doc/gpgme/gpgme_5.html | 74 ---
pyme-web/doc/gpgme/gpgme_50.html | 88 ---
pyme-web/doc/gpgme/gpgme_51.html | 208 -------
pyme-web/doc/gpgme/gpgme_52.html | 154 -----
pyme-web/doc/gpgme/gpgme_53.html | 291 ---------
pyme-web/doc/gpgme/gpgme_54.html | 91 ---
pyme-web/doc/gpgme/gpgme_55.html | 107 ----
pyme-web/doc/gpgme/gpgme_56.html | 140 -----
pyme-web/doc/gpgme/gpgme_57.html | 106 ----
pyme-web/doc/gpgme/gpgme_58.html | 89 ---
pyme-web/doc/gpgme/gpgme_59.html | 97 ---
pyme-web/doc/gpgme/gpgme_6.html | 77 ---
pyme-web/doc/gpgme/gpgme_60.html | 142 -----
pyme-web/doc/gpgme/gpgme_61.html | 626 ----------
pyme-web/doc/gpgme/gpgme_62.html | 107 ----
pyme-web/doc/gpgme/gpgme_63.html | 67 --
pyme-web/doc/gpgme/gpgme_64.html | 95 ---
pyme-web/doc/gpgme/gpgme_65.html | 233 -------
pyme-web/doc/gpgme/gpgme_66.html | 65 --
pyme-web/doc/gpgme/gpgme_67.html | 220 -------
pyme-web/doc/gpgme/gpgme_68.html | 75 ---
pyme-web/doc/gpgme/gpgme_69.html | 119 ----
pyme-web/doc/gpgme/gpgme_7.html | 123 ----
pyme-web/doc/gpgme/gpgme_70.html | 107 ----
pyme-web/doc/gpgme/gpgme_71.html | 218 -------
pyme-web/doc/gpgme/gpgme_72.html | 134 ----
pyme-web/doc/gpgme/gpgme_73.html | 299 ---------
pyme-web/doc/gpgme/gpgme_74.html | 103 ----
pyme-web/doc/gpgme/gpgme_75.html | 104 ----
pyme-web/doc/gpgme/gpgme_76.html | 118 ----
pyme-web/doc/gpgme/gpgme_77.html | 95 ---
pyme-web/doc/gpgme/gpgme_78.html | 71 ---
pyme-web/doc/gpgme/gpgme_79.html | 686 ----------
pyme-web/doc/gpgme/gpgme_8.html | 155 -----
pyme-web/doc/gpgme/gpgme_80.html | 120 ----
pyme-web/doc/gpgme/gpgme_81.html | 278 ---------
pyme-web/doc/gpgme/gpgme_82.html | 272 --------
pyme-web/doc/gpgme/gpgme_83.html | 180 ------
pyme-web/doc/gpgme/gpgme_84.html | 99 ---
pyme-web/doc/gpgme/gpgme_9.html | 104 ----
pyme-web/doc/gpgme/gpgme_abt.html | 206 -------

```
pyme-web/doc/gpgme/gpgme_fot.html               |  53 --
pyme-web/doc/gpgme/gpgme_ovr.html               |  68 --
pyme-web/doc/gpgme/gpgme_toc.html               | 247 --------
pyme-web/doc/gpgme/index.html                   | 497 ++++++++-------
176 files changed, 9054 insertions(+), 13378 deletions(-)

commit 163c1053dc761682f5a4231da163bdd0ff7162d7
Author: belyi <devnull@localhost>
Date:
  Tue Apr 1 21:14:29 2008 +0000

  Update Home page to be a bit more visitor friendly.

pyme-web/Makefile    |  2 +-
pyme-web/default.css | 27 ++++++++++++++++++++++
pyme-web/index.html  | 70 ++++++++++++++++++++++
```

```
pyme/gpgme-h-clean.py     |  2 +-
pyme/pyme/core.py         |  2 +-
pyme/pyme/util.py         |  2 +-
16 files changed, 28 insertions(+), 307 deletions(-)

commit 2b56fd10517cfbcffaa4ba98d8ea42f40f0d38a9
Author: belyi <devnull@localhost>
Date:   Sun Mar 23 02:01:12 2008 +0000

   Turn SWIG's autodoc feature on. Ignore 'next' in the types which are lists now.
   Use new style for class declarations. Specify None as a default value for
   core.check_version() method. Update version.py for 0.8.0 version.

pyme/examples/pygpa.py
 | 2 +-
pyme/gpgme.i           | 5 +++++
pyme/pyme/core.py      | 2 +-
pyme/pyme/util.py      | 5 +++--
pyme/pyme/version.py   | 6 +++---
5 files changed, 13 insertions(+), 7 deletions(-)

commit df5e25d7ee4dc0aa0d429f9d009322dd8ac33bb8
Author: belyi <devnull@localhost>
Date:   Thu Mar 20 19:07:00 2008 +0000

   Improve matching for DEPRECATED typedefs

pyme/gpgme-h-clean.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit 78d8fc732848ac267ec65e9069265cd500587cdf
Author: belyi <devnull@localhost>
Date:   Wed Mar 19 19:28:40 2008 +0000

   Update API to use list when types containing 'next' field are return.
   Update examples accordingly
   Add verifydetails.py example
   Start adding bullets for 0.8.0 version.

pyme/Makefile                  |  2 +-
pyme/debian/changelog          | 14 +++++++-
pyme/examples/PyGtkGpgKeys.py   | 53 +++++++++++++---------------
pyme/examples/delkey.py         |  7 ++--
pyme/examples/encrypt-to-all.py |  7 ++--
 pyme/examples/exportimport.py   |  7 ++--
pyme/examples/pygpa.py          | 70 ++++++++++++++++--------------------
pyme/examples/signverify.py     | 11 +++---
pyme/examples/verifydetails.py  | 79 ++++++++++++++++++++++++++++++++++++++++++
```

```
pyme/gpgme.i                  | 19 +++++++++-
10 files changed, 180 insertions(+), 89 deletions(-)

commit 342d85b07475e7360bcd62804bf5facda039494f
Author: belyi <devnull@localhost>
Date:   Mon Mar 10 01:14:16 2008 +0000

  Change references to source files so that they point to the WebCVS browse
  location.

pyme-web/doc/pyme/index.html                      | 2 +-
pyme-web/doc/pyme/pyme.callbacks.html             | 2 +-
pyme-web/doc/pyme/pyme.constants.data.encoding.html | 2 +-
pyme-web/doc/pyme/pyme.constants.data.html        | 2 +-
pyme-web/doc/pyme/pyme.constants.event.html       | 2 +-
pyme-web/doc/pyme/pyme.constants.html             | 2 +-
pyme-web/doc/pyme/pyme.constants.import.html      | 2 +-
pyme-web/doc/pyme/pyme.constants.keylist.html
     | 2 +-
pyme-web/doc/pyme/pyme.constants.keylist.mode.html | 2 +-
pyme-web/doc/pyme/pyme.constants.md.html          | 2 +-
pyme-web/doc/pyme/pyme.constants.pk.html          | 2 +-
pyme-web/doc/pyme/pyme.constants.protocol.html    | 2 +-
pyme-web/doc/pyme/pyme.constants.sig.html         | 2 +-
pyme-web/doc/pyme/pyme.constants.sig.mode.html    | 2 +-
pyme-web/doc/pyme/pyme.constants.sigsum.html      | 2 +-
pyme-web/doc/pyme/pyme.constants.status.html      | 2 +-
pyme-web/doc/pyme/pyme.constants.validity.html    | 2 +-
pyme-web/doc/pyme/pyme.core.html                  | 2 +-
pyme-web/doc/pyme/pyme.errors.html                | 2 +-
pyme-web/doc/pyme/pyme.html                       | 2 +-
pyme-web/doc/pyme/pyme.util.html                  | 2 +-
pyme-web/doc/pyme/pyme.version.html               | 2 +-
22 files changed, 22 insertions(+), 22 deletions(-)

commit 4139dd1d066c1a6c892d84fe45dc3e6c4aa1b803
Author: belyi
 <devnull@localhost>
Date:   Sat Mar 8 18:21:08 2008 +0000

  Add core.check_version(None) to all examples since this function is used by
  Gpgme to do internal initialization. Update debian/rules to use dh_pysupport
  instead of deprecated dh_python.

pyme/debian/rules             | 8 +++-----
pyme/examples/PyGtkGpgKeys.py | 7 ++++++-
pyme/examples/delkey.py       | 2 ++
pyme/examples/encrypt-to-all.py | 3 +++
```

```
pyme/examples/exportimport.py   | 2 ++
pyme/examples/genkey.py         | 1 +
pyme/examples/inter-edit.py     | 3 +++
pyme/examples/pygpa.py          | 5 +++++
pyme/examples/sign.py           | 2 ++
pyme/examples/signverify.py     | 2 ++
pyme/examples/simple.py         | 2 ++
pyme/examples/t-edit.py         | 3 +++
12 files changed, 34 insertions(+), 6 deletions(-)

commit ae76c6176457dd38e0634cbc17d794294a3a81d2
Author: belyi <devnull@localhost>
Date:   Wed Apr 12 22:20:38 2006 +0000

  Change name of internal package name from 'gpgme' to 'pygpgme' to avoid
   conflict with gpgme.dll on Windows.
  Fix build with SWIG 1.3.28.
  Change version to 0.7.1 in a preparation for new release.

pyme/Makefile          |   3 +-
pyme/debian/changelog  |  12 ++++
pyme/gpgme.i           |  19 +++---
pyme/pyme/callbacks.py |   1 -
pyme/pyme/core.py      | 153 ++++++
```

```
commit 89eb370fcaa8adc9d219eadbaa579dde7bf06329
Author: belyi <devnull@localhost>
Date:   Mon Aug 1 03:08:32 2005 +0000

    Imported changes provided by Joost van Baal:
    Use dh_python in debian/rules and change the Section pyme belongs to from
    'libs' to 'python'.

pyme/debian/control | 6 +++---
pyme/debian/rules   | 2 ++
2 files changed, 5 insertions(+), 3 deletions(-)

commit ad76d10c2a77b45b7459c62131279e946b860891
Author: belyi <devnull@localhost>
Date:   Fri Jun 10 03:01:22 2005 +0000

    Update 'docs' rule in Makefile to build packages first to ensure that
    documentation is build for the current version of pyme and not for the
    installed one.

    Added 'callbacks' into the list of visible pyme modules (__all__ var.)

    Slightly updated INSTALL
  file.

pyme/INSTALL          | 11 ++++++++---
pyme/Makefile         |  4 ++--
pyme/pyme/__init__.py |  2 +-
3 files changed, 11 insertions(+), 6 deletions(-)

commit 2fe1a81e00721698bfa6850b3db2eb85e43d1724
Author: belyi <devnull@localhost>
Date:   Wed Jun 8 16:16:18 2005 +0000

    Update pyme documentation to remove dead links to pyme.gpgme.html and
    pyme._gpgme.html
    Added reference to the installed GPGME and PyMe documentation to the head
    web page.
    Updated Makefile to install all *.html files and to clean *~ files in all
    subdirectories

pyme-web/Makefile                    | 10 ++++++----
pyme-web/doc/pyme/index.html         |  8 +++-----
pyme-web/doc/pyme/pyme.callbacks.html |  8 --------
pyme-web/doc/pyme/pyme.core.html     |  1 -
pyme-web/doc/pyme/pyme.errors.html   |  8 --------
pyme-web/doc/pyme/pyme.html          |  8 +++-----
pyme-web/doc/pyme/pyme.util.html     |  8 --------
```

```
pyme-web/index.html                | 9 +++++++--
8 files
 changed, 19 insertions(+), 41 deletions(-)

commit 6aa34cce4ea0099e50b4936dfee59778157b8ca8
Author: belyi <devnull@localhost>
Date:   Wed Jun 8 15:18:20 2005 +0000

   Added pyme and gpgme documentation.

pyme-web/doc/gpgme/gpgme.html                | 251 ++++++++
pyme-web/doc/gpgme/gpgme_1.html              |  76 +++
pyme-web/doc/gpgme/gpgme_10.html             |  61 ++
pyme-web/doc/gpgme/gpgme_11.html             | 130 ++++
pyme-web/doc/gpgme/gpgme_12.html             |  82 +++
pyme-web/doc/gpgme/gpgme_13.html             | 130 ++++
pyme-web/doc/gpgme/gpgme_14.html             | 108 ++++
pyme-web/doc/gpgme/gpgme_15.html             |  69 +++
pyme-web/doc/gpgme/gpgme_16.html             | 169 +++++
pyme-web/doc/gpgme/gpgme_17.html             |  63 ++
pyme-web/doc/gpgme/gpgme_18.html             |  63 ++
pyme-web/doc/gpgme/gpgme_19.html             |  66 ++
pyme-web/doc/gpgme/gpgme_2.html
           |  79 +++
pyme-web/doc/gpgme/gpgme_20.html             | 120 ++++
pyme-web/doc/gpgme/gpgme_21.html             | 102 +++
pyme-web/doc/gpgme/gpgme_22.html             | 108 ++++
pyme-web/doc/gpgme/gpgme_23.html             | 237 +++++++
pyme-web/doc/gpgme/gpgme_24.html             | 154 +++++
pyme-web/doc/gpgme/gpgme_25.html             | 248 ++++++++
pyme-web/doc/gpgme/gpgme_26.html             | 107 ++++
pyme-web/doc/gpgme/gpgme_27.html             |  80 +++
pyme-web/doc/gpgme/gpgme_28.html             |  67 ++
pyme-web/doc/gpgme/gpgme_29.html             | 164 +++++
pyme-web/doc/gpgme/gpgme_3.html              |  86 +++
pyme-web/doc/gpgme/gpgme_30.html             | 106 ++++
pyme-web/doc/gpgme/gpgme_31.html             | 232 +++++++
pyme-web/doc/gpgme/gpgme_32.html             |  85 +++
pyme-web/doc/gpgme/gpgme_33.html             | 223 +++++++
pyme-web/doc/gpgme/gpgme_34.html
              |  83 +++
pyme-web/doc/gpgme/gpgme_35.html             |  70 +++
pyme-web/doc/gpgme/gpgme_36.html             |  63 ++
pyme-web/doc/gpgme/gpgme_37.html             |  66 ++
pyme-web/doc/gpgme/gpgme_38.html             |  86 +++
pyme-web/doc/gpgme/gpgme_39.html             |  79 +++
pyme-web/doc/gpgme/gpgme_4.html              |  83 +++
pyme-web/doc/gpgme/gpgme_40.html             |  89 +++
```

```
pyme-web/doc/gpgme/gpgme_41.html            |  99 +++
pyme-web/doc/gpgme/gpgme_42.html            | 144 +++++
pyme-web/doc/gpgme/gpgme_43.html            | 152 +++++
pyme-web/doc/gpgme/gpgme_44.html            | 112 ++++
pyme-web/doc/gpgme/gpgme_45.html            | 101 +++
pyme-web/doc/gpgme/gpgme_46.html            | 459 ++++++++++++++
pyme-web/doc/gpgme/gpgme_47.html            | 292 +++++++++
pyme-web/doc/gpgme/gpgme_48.html            | 363 ++++++++++
pyme-web/doc/gpgme/gpgme_49.html
            | 209 +++++++
pyme-web/doc/gpgme/gpgme_5.html             |  74 +++
pyme-web/doc/gpgme/gpgme_50.html            |  88 +++
pyme-web/doc/gpgme/gpgme_51.html            | 208 +++++++
pyme-web/doc/gpgme/gpgme_52.html            | 154 +++++
pyme-web/doc/gpgme/gpgme_53.html            | 291 +++++++++
pyme-web/doc/gpgme/gpgme_54.html            |  91 +++
pyme-web/doc/gpgme/gpgme_55.html            | 107 ++++
pyme-web/doc/gpgme/gpgme_56.html            | 140 +++++
pyme-web/doc/gpgme/gpgme_57.html            | 106 ++++
pyme-web/doc/gpgme/gpgme_58.html            |  89 +++
pyme-web/doc/gpgme/gpgme_59.html            |  97 +++
pyme-web/doc/gpgme/gpgme_6.html             |  77 +++
pyme-web/doc/gpgme/gpgme_60.html            | 142 +++++
pyme-web/doc/gpgme/gpgme_61.html            | 626 ++++++++++++++++++++
pyme-web/doc/gpgme/gpgme_62.html
            | 107 ++++
pyme-web/doc/gpgme/gpgme_63.html            |  67 ++
pyme-web/doc/gpgme/gpgme_64.html            |  95 +++
pyme-web/doc/gpgme/gpgme_65.html            | 233 +++++++
pyme-web/doc/gpgme/gpgme_66.html            |  65 ++
pyme-web/doc/gpgme/gpgme_67.html            | 220 +++++++
pyme-web/doc/gpgme/gpgme_68.html            |  75 +++
pyme-web/doc/gpgme/gpgme_69.html            | 119 ++++
pyme-web/doc/gpgme/gpgme_7.html             | 123 ++++
pyme-web/doc/gpgme/gpgme_70.html            | 107 ++++
pyme-web/doc/gpgme/gpgme_71.html            | 218 +++++++
pyme-web/doc/gpgme/gpgme_72.html            | 134 ++++
pyme-web/doc/gpgme/gpgme_73.html            | 299 +++++++++
pyme-web/doc/gpgme/gpgme_74.html            | 103 ++++
pyme-web/doc/gpgme/gpgme_75.html            | 104 ++++
pyme-web/doc/gpgme/gpgme_76.html            | 118 ++++
pyme-web/doc/gpgme/gpgme_77.html
            |  95 +++
pyme-web/doc/gpgme/gpgme_78.html            |  71 +++
pyme-web/doc/gpgme/gpgme_79.html            | 686 ++++++++++++++++++++++
pyme-web/doc/gpgme/gpgme_8.html             | 155 +++++
pyme-web/doc/gpgme/gpgme_80.html            | 120 ++++
pyme-web/doc/gpgme/gpgme_81.html            | 278 +++++++++
```

```
pyme-web/doc/gpgme/gpgme_82.html               | 272 ++++++++
pyme-web/doc/gpgme/gpgme_83.html               | 180 ++++++
pyme-web/doc/gpgme/gpgme_84.html               |  99 +++
pyme-web/doc/gpgme/gpgme_9.html                | 104 ++++
pyme-web/doc/gpgme/gpgme_abt.html              | 206 +++++++
pyme-web/doc/gpgme/gpgme_fot.html              |  53 ++
pyme-web/doc/gpgme/gpgme_ovr.html              |  68 ++
pyme-web/doc/gpgme/gpgme_toc.html              | 247 ++++++++
pyme-web/doc/gpgme/index.html                  | 251 ++++++++
pyme-web/doc/pyme/index.html
          | 166 +++++
pyme-web/doc/pyme/pyme.callbacks.html            |  50 ++
.../doc/pyme/pyme.constants.data.encoding.html   |  48 ++
pyme-web/doc/pyme/pyme.constants.data.html       |  29 +
pyme-web/doc/pyme/pyme.constants.event.html      |  48 ++
pyme-web/doc/pyme/pyme.constants.html            |  39 ++
pyme-web/doc/pyme/pyme.constants.import.html     |  49 ++
pyme-web/doc/pyme/pyme.constants.keylist.html    |  29 +
pyme-web/doc/pyme/pyme.constants.keylist.mode.html |  48 ++
pyme-web/doc/pyme/pyme.constants.md.html         |  58 ++
pyme-web/doc/pyme/pyme.constants.pk.html         |  50 ++
pyme-web/doc/pyme/pyme.constants.protocol.html   |  46 ++
pyme-web/doc/pyme/pyme.constants.sig.html        |  29 +
pyme-web/doc/pyme/pyme.constants.sig.mode.html   |  47 ++
pyme-web/doc/pyme/pyme.constants.sigsum.html     |  55 ++
pyme-web/doc/pyme/pyme.constants.status.html     | 117 ++++
pyme-web/doc/pyme/pyme.constants.validity.html   |  50 ++
pyme-web/doc/pyme/pyme.core.html
             | 254 ++++++++
pyme-web/doc/pyme/pyme.errors.html               |  90 +++
pyme-web/doc/pyme/pyme.html                    | 166 +++++
pyme-web/doc/pyme/pyme.util.html                 |  78 +++
pyme-web/doc/pyme/pyme.version.html              |  37 ++
pyme-web/index.html                            |   6 +-
113 files changed, 14966 insertions(+), 1 deletion(-)

commit 2d6fe54479f042644f7b0f3d2fe35877d2056144
Author: belyi <devnull@localhost>
Date:   Thu May 19 02:06:09 2005 +0000

  Added INSTALL file.

pyme/INSTALL | 10 ++++++++++
1 file changed, 10 insertions(+)

commit d6892fff0c3cedf41dba4c25ab8608e7f2bc039c
Author: belyi <devnull@localhost>
Date:   Tue May 17 16:49:28 2005 +0000
```

```
   Update copyright note on simple.py

pyme/examples/simple.py | 4 ++--
1 file changed, 2 insertions(+), 2 deletions(-)

commit c2cd9cdf5995843aad7b200b929db2969effc9d2
Author: belyi <devnull@localhost>
Date:   Tue May 17 15:03:58 2005
 +0000

   Update simple.py to catch errors.

pyme/examples/simple.py | 17 +++++++++++------
1 file changed, 11 insertions(+), 6 deletions(-)

commit eaedae7c6a0ea993caab067efe781a59b6769c44
Author: belyi <devnull@localhost>
Date:   Tue May 17 01:18:23 2005 +0000

   Added 'PYTHON = python' into Makefile for bug #1199122

pyme/Makefile              | 1 +
pyme/examples/signverify.py | 1 +
2 files changed, 2 insertions(+)

commit 56fd244bb2636a4d58629899ea3cde1d96428198
Author: belyi <devnull@localhost>
Date:   Wed Apr 27 21:37:06 2005 +0000

   Added pygpa example.

pyme/debian/changelog     |    3 +-
pyme/examples/pygpa.glade | 5546 ++++++++++++++++++++++++++++++++++++++++++++++
pyme/examples/pygpa.py    | 1459 ++++++++++++
3 files changed, 7007 insertions(+), 1 deletion(-)

commit 2d9a2a91a59ac3fee5410c953b7e0859e9e7cd35
Author: belyi <devnull@localhost>
Date:   Thu Apr 21 15:17:51 2005 +0000

   Change version to 0.7.0 due to the change in license.

pyme/debian/changelog
 | 2 +-
pyme/pyme/version.py  | 2 +-
2 files changed, 2 insertions(+), 2 deletions(-)
```

```
commit 94e34e38d742f145385bd235825b6ba1e30d8339
Author: belyi <devnull@localhost>
Date:   Thu Apr 21 03:53:12 2005 +0000

  Changed license on PyMe from GPL to LGPL.
  PyMe examples keep GPL license.

pyme/COPYING.LESSER                | 510 ++++++++++++++++++++++++++++++++++++++++
pyme/Makefile                      |  20 +-
pyme/debian/changelog              |   4 +-
pyme/debian/copyright              |  22 +-
pyme/gpgme-h-clean.py              |  16 ++
pyme/gpgme.i                       |  20 +-
pyme/helpers.c                     |  20 +-
pyme/helpers.h                     |  20 +-
pyme/pyme/__init__.py              |  20 +-
pyme/pyme/callbacks.py             |  20 +-
pyme/pyme/constants/data/encoding.py |  20 +-
pyme/pyme/constants/event.py       |  20 +-
pyme/pyme/constants/import.py      |  20 +-
pyme/pyme/constants/keylist/mode.py |  20 +-
pyme/pyme/constants/md.py
          |  20 +-
pyme/pyme/constants/pk.py          |  20 +-
pyme/pyme/constants/protocol.py    |  20 +-
pyme/pyme/constants/sig/mode.py    |  20 +-
pyme/pyme/constants/sigsum.py      |  20 +-
pyme/pyme/constants/status.py      |  20 +-
pyme/pyme/constants/validity.py    |  20 +-
pyme/pyme/core.py                  |  20 +-
pyme/pyme/errors.py                |  20 +-
pyme/pyme/util.py                  |  20 +-
pyme/pyme/version.py               |  22 +-
pyme/setup.py                      |  20 +-
26 files changed, 761 insertions(+), 233 deletions(-)

commit 0d8aa0f6335cb1506a37085095ed45173b099a02
Author: belyi <devnull@localhost>
Date:   Tue Apr 19 01:46:06 2005 +0000

  Added __hash__ and __eq__ methods to GpgmeWrapper to allow both Context()
  and Data() to be used as a dictionary key.
  Changed core.wait() function to always return a tuple. On timeout now it
  returns (0, None) instead of just None. Plus, return context is
 now a
  Context() object instead of a wrapper return by underlying gpgme.

pyme/helpers.c    |  1 -
```

```
pyme/pyme/core.py | 25 +++++++++++++++++----------
pyme/pyme/util.py |  9 +++++++++
3 files changed, 24 insertions(+), 11 deletions(-)

commit 63ff6d10637be1dcbcd78c939ac1ef1ac30b1024
Author: belyi <devnull@localhost>
Date:   Wed Apr 6 04:58:40 2005 +0000

  Made hook parameter optional in passphrase_cb and progress_cb.
  Allowed None for callbacks to unset ones set previously.
  Removed cleanup of exception in callbacks - now just retrieve the error code.
  Added prev_bad parameter in passphrase_cb since it can be used in
  change password protocols.
  Updated examples to follow new sets of arguments in callbacks
  Updated op_edit to check if passed key is None (otherwise gpgme dumps core)
  God rid of annoying warning "function declaration isn't a prototype" in
  helpers.c and helpers.h by changing from () to (void) list of arguments.

pyme/debian/changelog
  | 10 +++++---
pyme/examples/signverify.py |  2 +-
pyme/examples/t-edit.py     |  2 +-
pyme/gpgme.i                | 18 +++++++++-----
pyme/helpers.c              | 60 ++++++++++++++++
```

Author: belyi <devnull@localhost>
Date: Thu Mar 31 05:12:15 2005 +0000

  Remove workaround from Context.wait() method since the bug report and
  patch fixing gpgme_wait's behavior is sent to GPMGE developers already.
  Added errorcheck into op_edit() so that it can report an error.

pyme/pyme/core.py | 10 +++++-----
1 file changed, 5 insertions(+), 5 deletions(-)

commit 45e8a5f4e13d3ca797ec3b0037242874a6be5562
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:44:18 2005 +0000

  Updated version number to 0.6.2 in version.py
  Added examples/*.glade files into documentation package.

pyme/debian/examples | 1 +
pyme/pyme/version.py | 2 +-
2 files changed, 2 insertions(+), 1 deletion(-)

commit 270b87bb40e180cb6e8f1de9a0e8161525ffa4ab
Author: belyi <devnull@localhost>
Date: Sat Mar
 26 19:31:14 2005 +0000

  Updated debian/changelog regarding PyGtkGpgKeys example and a fix in errors.

pyme/debian/changelog | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)

commit ea4682009a506db91e5174ffd038fe7e4406b591
Author: belyi <devnull@localhost>
Date: Sat Mar 26 19:25:36 2005 +0000

  Added handling of right mouse button click.
  Changed reporting a string instead of a number on key generation failure.

pyme/examples/PyGtkGpgKeys.glade | 2 ++
pyme/examples/PyGtkGpgKeys.py | 30 ++++++++++++++++++++++++++++---
2 files changed, 29 insertions(+), 3 deletions(-)

commit f65ad1a703d0098a3204fb8527a54d253e5847e7
Author: belyi <devnull@localhost>
Date: Sat Mar 26 18:11:11 2005 +0000

  Added another column indicating if a key has a secret part.
  Automated generation of the View menu from the view field of the KeyColumn

class.

pyme/examples/PyGtkGpgKeys.glade | 93 ++----------
pyme/examples/PyGtkGpgKeys.py | 74
++++++++++++++++----------
2 files changed, 44 insertions(+), 123 deletions(-)

commit b54e83a7a7a5785502f3c7e8b95f15e23b40e65a
Author: belyi <devnull@localhost>
Date: Sat Mar 26 16:45:13 2005 +0000

Small change to the way gtk.TreeModel object is used.

pyme/examples/PyGtkGpgKeys.py | 21 ++++++++++----------
1 file changed, 10 insertions(+), 11 deletions(-)

commit 7078db75cef4c1fd70cf03e37172bdb4f933fd1b
Author: belyi <devnull@localhost>
Date: Fri Mar 25 23:33:06 2005 +0000

Use more comprehansible error reporting since gpgme_strerror_r returns None
all the time.

pyme/pyme/errors.py | 6 +++---
1 file changed, 3 insertions(+), 3 deletions(-)

commit 151213f4344d9984975721440af07de09e3df61c
Author: belyi <devnull@localhost>
Date: Fri Mar 25 04:30:17 2005 +0000

Improved PyGtkGpgKeys example to manage owner_trust on keys.
Added another example inter-edit.py which is just a helper to write
scripts for Context.op_edit() command.

pyme/examples/PyGtkGpgKeys.glade
| 78 ++
pyme/examples/PyGtkGpgKeys.py | 68 ++++++++++++++++++++++++++++++----
pyme/examples/inter-edit.py | 54 ++++++++++++++++++++++++++++
pyme/examples/t-edit.py | 18 ++++++++++
4 files changed, 212 insertions(+), 6 deletions(-)

commit fc7235af217bcee5231ce7fbd7f234712d5ad3b0
Author: belyi <devnull@localhost>
Date: Fri Mar 25 00:30:39 2005 +0000

Updated PyGtkGpgKeys example to include import, export and reload
functionality. Also added ability to remove number of keys simultaneously.
Rearanged how KeyColumn is used to avoid unnecessary sorts and duplication

of information in different parts of the code.

```
pyme/examples/PyGtkGpgKeys.glade |  86 +++++++++-
pyme/examples/PyGtkGpgKeys.py    | 332 ++++++++++++++++++++++++++++++----------
2 files changed, 325 insertions(+), 93 deletions(-)

commit 9f65749ccb1b7cab562e19c03f4371d5f7d94912
Author: belyi <devnull@localhost>
Date:   Thu Mar 24 05:51:03
 2005 +0000

   Added example of PyGTK+ and PyMe integration.
   For now it does only simple things - listing, deleting, and generating keys.

pyme/examples/PyGtkGpgKeys.glade  | 1321 ++++++++++++++++++++++++++++++++++++++++
pyme/examples/PyGtkGpgKeys.gladep |    8 +
pyme/examples/PyGtkGpgKeys.py     |  424 ++++++++++++
3 files changed, 1753 insertions(+)

commit 59e23f32c3b46413c9ec09e23e1a385a110fb103
Author: belyi <devnull@localhost>
Date:   Thu Mar 24 05:44:58 2005 +0000

   Added wait method Context class which handles asynchronous calls a little
   bit better than the one generated by SWIG.

pyme/debian/changelog |  7 +++++++
pyme/gpgme.i          |  1 +
pyme/pyme/core.py     | 40 ++++++++++++++++++++++++++++++++++++++++
3 files changed, 48 insertions(+)

commit 4c1b5259e4985df2cba0ae4fc09f12cd94603a75
Author: belyi <devnull@localhost>
Date:   Tue Mar 22 18:29:31 2005 +0000

   Added correct handling of Context.op_edit() method.
   Added example/t-edit.py showing
 usage for this method.
   Output of this example should match output of the  tests/gpg/t-edit
   from the GPGME test suite.
   Remove unused static function from helpers.c

pyme/examples/t-edit.py | 38 ++++++++++++++++++++++++++++++++++++++
pyme/gpgme.i            | 36 ++++++++++++++++++++++++++++++++++++
pyme/helpers.c          | 36 ------------------------------------
pyme/pyme/core.py       |  5 ++++-
4 files changed, 78 insertions(+), 37 deletions(-)
```

commit dc587e215283bfef2dd594f86a7b2945f74f5155
Author: belyi <devnull@localhost>
Date: Sat Mar 19 01:43:59 2005 +0000

  Update changelog to include note about deprecated function in 0.6.1 release

pyme/debian/changelog | 3 ++-
pyme/examples/encrypt-to-all.py | 3 +--
2 files changed, 3 insertions(+), 3 deletions(-)

commit 86de4b3ad777f980ccf7ba3462c85bbe1787d1fd
Author: belyi <devnull@localhost>
Date: Sat Mar 19 01:40:07 2005 +0000

  Remove deprecated functions from helpers.[ch]
  Use gpgme-h-clean.py
 to remove deprecated functions and typedefs from
  the GPGME header file. This will reduce the number of unused methods.

pyme/Makefile | 4 ++--
pyme/gpgme-h-clean.py | 26 ++++++++++++++++++++++++++
pyme/helpers.c | 8 --------
pyme/helpers.h | 2 --
4 files changed, 28 insertions(+), 12 deletions(-)

commit 2483efcbd0d73c628c4d7717928a766c3b58f0aa
Author: belyi <devnull@localhost>
Date: Fri Mar 18 22:15:52 2005 +0000

  Update copyright and author values in pyme/version.py
  Create rules to build distribution files - one full and one without
  debian bits.

pyme/Makefile | 28 ++++++++++++++++++++++------
pyme/pyme/version.py | 12 ++++++------
2 files changed, 28 insertions(+), 12 deletions(-)

commit 168593285380f5a7805f3dd08657d429a72d3621
Author: belyi <devnull@localhost>
Date: Fri Mar 18 19:09:33 2005 +0000

  Added package building for python2.4

  Updated copyright notes to include myself and avoid confusion who's the
  maintainer.
 In John's own words: "I'd prefer to just step out of the picture".
  Jonh's copyright notice left intact.

```
pyme/Makefile                    |  6 +++---
pyme/debian/changelog            |  7 +++++++
pyme/debian/control              | 30 ++++++++++++++++++++++++++++---
pyme/debian/copyright            | 10 ++++------
pyme/debian/rules                |  4 ++++
pyme/debian/setup.cfg-2.4        |  8 ++++++++
pyme/examples/genkey.py          |  4 ++--
pyme/gpgme.i                     |  4 ++--
pyme/helpers.c                   |  4 ++--
pyme/helpers.h                   |  4 ++--
pyme/pyme/__init__.py            |  4 ++--
pyme/pyme/callbacks.py           |  4 ++--
pyme/pyme/constants/data/encoding.py |  4 ++--
pyme/pyme/constants/event.py     |  4 ++--
pyme/pyme/constants/import.py    |  4 ++--
pyme/pyme/constants/keylist/mode.py |  4 ++--
pyme/pyme/constants/md.py        |  4 ++--
pyme/pyme/constants/pk.py
        |  4 ++--
pyme/pyme/constants/protocol.py  |  4 ++--
pyme/pyme/constants/sig/mode.py  |  4 ++--
pyme/pyme/constants/sigsum.py    |  4 ++--
pyme/pyme/constants/status.py    |  4 ++--
pyme/pyme/constants/validity.py  |  4 ++--
pyme/pyme/core.py                |  4 ++--
pyme/pyme/errors.py              |  4 ++--
pyme/pyme/util.py                |  4 ++--
pyme/pyme/version.py             |  2 +-
pyme/setup.py                    |  3 ++-
28 files changed, 96 insertions(+), 54 deletions(-)

commit 6dbbb252771133724b2879ed6d767cd708196dae
Author: belyi <devnull@localhost>
Date:   Fri Mar 18 18:04:35 2005 +0000

  Remove the note about gpgme.i to be generated - it's been the primary source
  for some time.

pyme/gpgme.i | 6 ------
1 file changed, 6 deletions(-)

commit 9d449fa4889c6bda6d14583c0625b8d5c4ffe759
Author: belyi <devnull@localhost>
Date:   Fri May 7 18:31:22 2004 +0000

  Added my copyright in genkey.py since there's
enough changes made.
  Updated signverify to use only keys generated by genkey.py, to check
```

```
    that keys added to singers are able to sign and to check that the
    list of signers is not empty. The last check is necessary to prevent
    signing with the key of the user running signverify.py script.
  Added delkey.py script to delete keys generated by genkey.py
  Added exportimport.py example for key export/import.

pyme/examples/delkey.py       | 29 ++++++++++++++++++
pyme/examples/exportimport.py | 76 ++++++++++++++++++++++++++++++++++++++++++++
pyme/examples/genkey.py       |  6 ++--
pyme/examples/signverify.py   | 18 ++++++----
4 files changed, 119 insertions(+), 10 deletions(-)

commit df98c8d28245ad2c14b0ab50fc8f8932853bec8b
Author: belyi <devnull@localhost>
Date:   Tue May 4 17:34:15 2004 +0000

  Added examples/signverify.py for unattended sing/verify.
  Updated examples/genkey.py to work correctly.
  Updated gpgme.i to allow None as a value for gpgme_data_t

 pyme/examples/genkey.py     | 14 ++-------
pyme/examples/signverify.py | 72 ++++++++++++++++++++++++++++++++++++++++++++
pyme/gpgme.i                | 21 ++++++++-----
3 files changed, 87 insertions(+), 20 deletions(-)

commit ba45931abf530ab89ead46d7233ff1b62b629a18
Author: belyi <devnull@localhost>
Date:   Thu Apr 8 16:15:09 2004 +0000

  Ensure that we support only python2.2 and up. :-)
  Use generators in core.Context class which makes pyme.aux obsolete
  Remove importing future nested_scopes since they are standard starting
  with python2.2

pyme/pyme/__init__.py |  5 ++---
pyme/pyme/aux.py      | 56 ----------------------------------------------
pyme/pyme/core.py     | 15 ++++++++---
pyme/pyme/errors.py   |  1 -
pyme/pyme/util.py     |  2 +-
5 files changed, 15 insertions(+), 64 deletions(-)

commit 4e9be5a55ecffa4da7ad5c192cc892eddaaa9586
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 03:53:30 2004 +0000

  Small change to index.html
   Added clean: rule to the Makefile
```

```
pyme-web/Makefile   | 3 +++
pyme-web/index.html | 6 +++---
2 files changed, 6 insertions(+), 3 deletions(-)

commit 2efb95176f4edf56ed61c9ac0c3aa09c56534df0
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 03:00:32 2004 +0000

  Added Makefile rules for pyme module installation.

pyme/Makefile | 5 ++++-
1 file changed, 4 insertions(+), 1 deletion(-)

commit 2b83d5d8b513029cc3e54f2fa502ccc85618104b
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:29:54 2004 +0000

  Decorative change.

pyme/pyme/aux.py | 2 +-
1 file changed, 1 insertion(+), 1 deletion(-)

commit e3478015d763a036c1d806ae01433fce59712204
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:25:55 2004 +0000

  Added RCS Id: tags

pyme/Makefile                       | 1 +
pyme/examples/encrypt-to-all.py     | 3 ++-
pyme/examples/genkey.py             | 3 ++-
pyme/examples/sign.py               | 3 ++-
pyme/examples/simple.py
    | 3 ++-
pyme/gpgme.i                        | 1 +
pyme/helpers.c                      | 1 +
pyme/helpers.h                      | 1 +
pyme/pyme/__init__.py               | 1 +
pyme/pyme/aux.py                    | 1 +
pyme/pyme/callbacks.py              | 1 +
pyme/pyme/constants/__init__.py     | 2 ++
pyme/pyme/constants/data/__init__.py | 2 ++
pyme/pyme/constants/data/encoding.py | 1 +
pyme/pyme/constants/event.py        | 1 +
pyme/pyme/constants/import.py       | 1 +
pyme/pyme/constants/keylist/__init__.py | 2 ++
pyme/pyme/constants/keylist/mode.py | 1 +
pyme/pyme/constants/md.py           | 1 +
```

```
pyme/pyme/constants/pk.py              | 1 +
pyme/pyme/constants/protocol.py        | 1 +
pyme/pyme/constants/sig/__init__.py    | 2 ++
pyme/pyme/constants/sig/mode.py        | 1 +
pyme/pyme/constants/sigsum.py          | 1 +
pyme/pyme/constants/status.py          | 1 +
pyme/pyme/constants/validity.py        | 1
 +
pyme/pyme/core.py                      | 1 +
pyme/pyme/errors.py                    | 1 +
pyme/pyme/util.py                      | 1 +
pyme/pyme/version.py                   | 2 ++
30 files changed, 39 insertions(+), 4 deletions(-)

commit b3b3712645332c5bc3e8d9d557aab21d48ff0f86
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 02:07:36 2004 +0000

  Added Id: RCS tags to all files.

pyme-web/Makefile   | 2 ++
pyme-web/index.html | 3 ++-
2 files changed, 4 insertions(+), 1 deletion(-)

commit 6aea2426beaaa8c43e6f2310a37a2737c0c3a1b5
Author: belyi <devnull@localhost>
Date:   Sun Mar 21 01:50:55 2004 +0000

  Update example on the init pyme.html page to match simple.py example.
  Fix core.py to use getcode() instead of getvalue() method of the exception.

pyme/pyme/__init__.py | 22 +++++++++++++++++++--------
pyme/pyme/core.py     |  4 ++--
2 files changed, 16 insertions(+), 10 deletions(-)

commit dee337455ffd624d3f83e1c159c4bb2cefc692c9
Author: belyi <devnull@localhost>
Date:
  Sat Mar 20 20:32:29 2004 +0000

  Added Makefile to simplify publishing web files.

pyme-web/Makefile | 7 +++++++
1 file changed, 7 insertions(+)

commit af7129baa8260697d85c2ddb434562e8a80b62d8
Author: belyi <devnull@localhost>
Date:   Sat Mar 20 20:15:53 2004 +0000
```

Added minimum of formatting and SF icon.

pyme-web/index.html | 18 ++++++++++-------
1 file changed, 11 insertions(+), 7 deletions(-)

commit 2e64dcbf99cee796b51667b04d8961e390edde87
Author: belyi <devnull@localhost>
Date: Sat Mar 20 18:30:09 2004 +0000

Initial revision

pyme-web/index.html | 33 +++++++++++++++++++++++++++++++++
1 file changed, 33 insertions(+)

commit 1c51644b3d0b6611422d971758e35f303d2ad5df
Author: belyi <devnull@localhost>
Date: Sat Mar 20 05:10:46 2004 +0000

Update examples and package information on the initial pyme doc page.

pyme/pyme/__init__.py | 27 ++++++++++++----------
1 file changed, 12 insertions(+), 15 deletions(-)

commit b2d31b0bfbffdff5247d6db4e3c95140cc1b1f19
Author:
belyi <devnull@localhost>
Date: Sat Mar 20 04:47:42 2004 +0000

Deleted unnecessary files.
Updated debian/control to remove dependency on python-xml package since there's
none now.
Move example files from 'doc' into separate control file.
Update debian/rules to build documentation from *.py files and to exclude
CVS directories from the installation.

pyme/Makefile | 26 ++++++++++++++++++++++++++++++++

Date: Sat Mar 20 02:59:15 2004 +0000

  Remove doc/gpgme
 directory containing GPGME documentation since this belongs
  to a different project. Need to add reference in our documentation.

pyme/doc/gpgme/fdl.texi | 402 ------
pyme/doc/gpgme/gpgme.texi | 3372 --
pyme/doc/gpgme/gpl.texi | 397 -----
pyme/doc/gpgme/version.texi | 4 -
4 files changed, 4175 deletions(-)

commit 95d7d171da115a0fedfe2a4a7e5acc8aa408f673
Author: belyi <devnull@localhost>
Date: Sat Mar 20 02:45:03 2004 +0000

  Change debian/rules to generate files by swig during build and to cleanup
  those files on 'clean' rule.
  Plus, leave generated gpgme_wrap.c in the root directory instead of moving
  it into subdirectory 'generated'.

pyme/Makefile | 8 +++-----
pyme/debian/rules | 3 ++-
pyme/setup.py | 2 +-
3 files changed, 6 insertions(+), 7 deletions(-)

commit 545b3d90d445c5c78e8d72b2c1780863e02c789a
Author: belyi <devnull@localhost>
Date: Sat Mar 20 02:18:01 2004 +0000

  Initial revision

 pyme/COPYING | 340 ++++
pyme/ChangeLog | 802 ++++++++
pyme/Makefile | 79 +
pyme/debian/README.Debian | 6 +
pyme/debian/changelog | 19 +
pyme/debian/control | 68 +
pyme/debian/copyright | 27 +
pyme/debian/dirs | 2 +
pyme/debian/docs | 2 +
pyme/debian/ex.package.doc-base | 22 +
pyme/debian/manpage.1.ex | 60 +
pyme/debian/manpage.sgml.ex | 152 ++
pyme/debian/postinst.ex | 48 +
pyme/debian/postrm.ex | 38 +
pyme/debian/preinst.ex | 44 +
pyme/debian/prerm.ex | 39 +

```
pyme/debian/rules                    | 130 ++
pyme/debian/setup.cfg-2.2            |   8 +
pyme/debian/setup.cfg-2.3            |   8 +
pyme/doc/gpgme/fdl.texi
          | 402 ++++
pyme/doc/gpgme/gpgme.texi            | 3372 ++++++++++++++++++++++++++++++++++++++++
pyme/doc/gpgme/gpl.texi              | 397 ++++
pyme/doc/gpgme/version.texi          |   4 +
pyme/examples/encrypt-to-all.py      |  63 +
pyme/examples/genkey.py              |  55 +
pyme/examples/sign.py                |  28 +
pyme/examples/simple.py              |  44 +
pyme/gpgme.i                         | 191 ++
pyme/helpers.c                       | 139 ++
pyme/helpers.h                       |  29 +
pyme/pyme/__init__.py                | 134 ++
pyme/pyme/aux.py                     |  55 +
pyme/pyme/callbacks.py               |  45 +
pyme/pyme/constants/__init__.py      |   2 +
pyme/pyme/constants/data/__init__.py |   2 +
pyme/pyme/constants/data/encoding.py |  19 +
pyme/pyme/constants/event.py         |  19 +
pyme/pyme/constants/import.py        |  19 +
pyme/pyme/constants/keylist/__init__.py
|   2 +
pyme/pyme/constants/keylist/mode.py  |  19 +
pyme/pyme/constants/md.py            |  19 +
pyme/pyme/constants/pk.py            |  19 +
pyme/pyme/constants/protocol.py      |  19 +
pyme/pyme/constants/sig/__init__.py  |   2 +
pyme/pyme/constants/sig/mode.py      |  19 +
pyme/pyme/constants/sigsum.py        |  19 +
pyme/pyme/constants/status.py        |  19 +
pyme/pyme/constants/validity.py      |  19 +
pyme/pyme/core.py                    | 367 ++++
pyme/pyme/errors.py                  |  46 +
pyme/pyme/util.py                    |  61 +
pyme/pyme/version.py                 |  39 +
pyme/setup.py                        |  60 +
53 files changed, 7642 insertions(+)

commit a3d5a442dc713b6c4d6fc4134db5b47e379dc41d
Author: root <devnull@localhost>
Date:   Fri Mar 19 14:12:30 2004 +0000

  initial checkin

CVSROOT/checkoutlist | 13 ++++++++++++
```

```
CVSROOT/commitinfo   | 15 +++++++++++++++
CVSROOT/config
 | 21 ++++++++++++++++++++
CVSROOT/cvswrappers  | 19 ++++++++++++++++++
CVSROOT/editinfo     | 21 ++++++++++++++++++++
CVSROOT/loginfo      | 26 ++++++++++++++++++++++++
CVSROOT/modules      | 26 ++++++++++++++++++++++++
CVSROOT/notify       | 12 ++++++++++++
CVSROOT/rcsinfo      | 13 ++++++++++++
CVSROOT/taginfo      | 20 ++++++++++++++++++
CVSROOT/verifymsg    | 21 ++++++++++++++++++++
11 files changed, 207 insertions(+)
-----BEGIN PGP PUBLIC KEY BLOCK-----

mQENBFrsKEkBCADKw4Wt8J6M/88qD8PO6lSMCxH1cpwH8iK0uPaFFYsJkkXo7kWf
PTAtrV+REqF/o80dvYcdLvRsV21pvncZz/HXLu1yQ18mC3XObrKokbdgrTTKA5XE
BZkNsqyaMMJauT18H4hYkSg62/tTdO1cu/zWv/LFf7Xyn6+uA74ovXCJlO1s0N2c
PShtr98QRzPMf2owgVk37JnDNp4gGVDGHxSZOuUwxgYAZYnA8SFc+c+3ZrQfY870
+O4j3Mz4p7yD13AwP4buQLBsb/icxekeQCqpRJhLH9f7MdEcGXa1x36RcEkHdu+M
yJ392eMgD+dKNfRCtyTPhjZTxvbNELIBYICfABEBAAG0EHRlc3RAZXhhbXBsZS5v
cmeJAVQEEwEIAD4WIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbAwUJA8Jn
AAULCQgHAgYVCgkICwIEFgIDAQIeAQIXgAAKCRAjAWNe7/DLBf9kB/wOQ/S60HGw
Fq07W9N01HWULyhHKoMmcHL6rfZ64oDqLxolPSasz7WAMW1jN4qtWJ0mFzwO83V6
kaBe+wF6Kqir6udFSBW9rPcFg6/VZXPltT0a6uacIHq6DyQ5iMW4YQWbVy9OR2rN
GkYo1JCBR0XdRJYCSX3yB4TWv/eXnZ37/WjmiTOIZh35rjs+NuU/S5JPDfAp2/k7
0DevQeBsv+UjVXjWpNTZmPbvDnd995uSmC6UY4hzyP84ORYMYn9n1QAR0goxDN6U
unOf9Rlp1oMzdxMool/d1MlCxg2h3jheuhv7lgUF4KpvHOuEPXQ7UO417E0TYcDZ
1J8Nsv87SZeEuQENBFrsKEkBCADjoEBhG/QPqZHg8VyoD1xYRAWGxyDJkX/GrSs6
yE+x2hk5FoQCajxKa/d4AVxOnJpdwhAfeXeSNaql5Ejgzax+Tdj9BV6vtGVJVv0p
O7bgAiZxkA6RHxtNqhpPnPQoXvUzkzpRgpuL+Nj4yIg7z1ITH6KQH4u5SI9vd+j/
8i9Taz67pdZwuJjac8qBuJHjzAo1bjYctFYUSG5pbmMQyNLySzgiNkFa4DajODlt
3RuqVGP316Fk+Sy2+60tC/HlX8jgMyMONfOGBQx6jk8tvAphS/LAqrrNepnagIyL
UGKU+L8cB2g1PGGp2biBFWqZbudZoyRBet/0yH/zirBdQJw1ABEBAAGJATwEGAEI
ACYWIQTUFzW5Ejb9uIIEjFojAWNe7/DLBQUCWuwoSQIbDAUJA8JnAAAKCRAjAWNe
7/DLBf0pCACPp5hBuUWngu2Hqvg+tNiujfsiYzId3MffFxEk3CbXeHcJ5F32NDJ9
PYCnra4L8wSv+NZt9gIa8lFwoFSFQCjzH7KE86XcV3MhfdJTNb/+9CR7Jq3e/4Iy
0N5ip7PNYMCyakcAsxvsNCJKrSaDuYe/OAoTXRBtgRWE2uyT315em02Lkr+2Cc/Q
k6H+vlNOHGRgnpI/OZZjnUuUfBUvMGHr1phW+y7aeymC9PnUGdViRdJe23nntMSD
A+0/I7ESO9JsWvJbyBmuiZpu9JjScOjYH9xpQLqRNyw4WHpZriN69F0t9Mmd7bM1
+UyPgbPEr0iWMeyctYsuOLeUyQKMscDT
=QyY6
-----END
 PGP PUBLIC KEY BLOCK-----
Using gpgme.js
---------------
At first, make sure that the environment you want to use gpgme.js in has access
and permissions for nativeMessaging, and gpgme-json installed. For details,
see the README.
```

The library itself is started via the {@link init} method. This will test the
nativeMessaging connection, and then resolve into an Object offering
the top level API:

* [encrypt]{@link GpgME#encrypt}
* [decrypt]{@link GpgME#decrypt}
* [sign]{@link GpgME#sign}
* [verify]{@link GpgME#verify}
* [Keyring]{@link GPGME_Keyring}

```
gpgmejs.init()
  .then(function(GPGME) {
     // using GPGME
  }, function(error){
     // error handling;
  })
```

All methods that require communication with nativeMessaging are asynchronous,
using Promises. Rejections will be instances of {@link GPGME_Error}.

An exaeption are Keys, which can be initialized in a 'sync' mode, allowing them
to be cached and used synchronously until manually refreshed.

Keyring and Keys

The gnupg keys
 can be accessed via the [Keyring]{@link GPGME_Keyring}.

The Keyring offers the methods for accessing information on all Keys known to
gnupg.

**Due to security constraints, the javascript-binding currently only offers
limited support for secret-Key interaction.**

The existence of secret Keys is not secret, and those secret Keys can be used
for signing, but Operations that may expose, modify or delete secret Keys are
not supported.

* [getKeysArmored]{@link GPGME_Keyring#getKeysArmored}
* [getKeys]{@link GPGME_Keyring#getKeys}
* [getDefaultKey]{@link GPGME_Keyring#getDefaultKey}
* [generateKey]{@link GPGME_Keyring#generateKey}
* [deleteKey]{@link GPGME_Keyring#deleteKey}
\input texinfo   @c -*- texinfo -*-
@c %**start of header

```
@setfilename what-is-new.info
@settitle What's New in the GPGME Python Bindings and Documentation
@documentencoding utf-8
@documentlanguage en
@c %**end of header

@finalout
@titlepage
@title What's New in the GPGME Python Bindings and Documentation
@author Ben McGinnes
@end titlepage

@contents

@ifnottex
@node Top
@top What's New in the GPGME Python Bindings and Documentation
@end ifnottex

@menu
* What's New::

@detailmenu
--- The Detailed Node Listing ---

What's New

* New in GPGME 1130::

@end detailmenu
@end menu

@node What's New
@chapter What's New

@multitable {aaaaaaaaaaaaaaa} {aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa}
@item Version:
@tab 0.0.1
@item GPGME Version:
@tab 1.13.0
@item Author:
@tab Ben McGinnes <ben@@gnupg.org>
@item Author GPG Key:
@tab DB4724E6FA4286C92B4E55C4321E4E2373590E5D
@item Language:
@tab Australian English, British English
@item xml:lang:
@tab en-AU, en-GB, en
```

@end multitable

Last time the most
obviously new thing was adding the @emph{What's New}
section to the HOWTO. Now it's moving it out of the HOWTO.

@menu
* New in GPGME 1130::
@end menu

@node New in GPGME 1130
@section New in GPGME 1130

Additions since GPGME 1.12.0 include:

@itemize
@item
Moving the @emph{What's New} section out of the basic @uref{gpgme-python-howto.org, HOWTO} document
and
into its own file so as to more readily include other documents
beyond that HOWTO.
@item
Moving the preceding, archival, segments into @uref{what-was-new.org, another file}.
@item
Added @samp{gpg.version.versionintlist} to make it easier for Python
developers to check for a specific version number, even with beta
versions (it will drop the "-betaN" part).
@item
Added expanded detail on issues pertaining to installing for Windows
users.
@item
Bindings enter @uref{maintenance-mode, maintenance mode} from January, 2019.
@item
Added documentation on maintenance mode and what changes can be made
to the code when in that status. Essentially
that boils down to bug
fixes only and no feature requests.
@item
The import-keys-hkp.py example script, which uses the @samp{hkp4py}
module to search the SKS servers for a key, has been tightened up to
search for both hexadecimal key IDs and user ID strings with reduced
chance of unnecessary repitition. There may still be some
repetition if a key includes a user ID matching the hexadecimal
value of a key ID.
@end itemize

@bye

```
;;;; gpgme-grovel.lisp

;;; This file is part of GPGME-CL.
;;;
;;; GPGME-CL 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.
;;;
;;; GPGME-CL is distributed in the hope that it will be useful, but
;;; WITHOUT ANY WARRANTY; without even the implied warranty of
;;; MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  See the GNU
;;; Lesser General Public License for more details.
;;;
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;;; along with GPGME; if not, write to the Free Software Foundation,
;;; Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.


(in-package :gpgme)


(include "errno.h" "sys/types.h")

(constant (+ebadf+ "EBADF"))

(ctype off-t "off_t")
(ctype size-t "size_t")
(ctype ssize-t "ssize_t")

(cvar ("errno" *errno*) :int)
(21:protected-private-key(3:elg(1:p129:W#}}l;;m>
;4YV$Qg
LoLy~*Tru*+ID8"-9,:17^g*({ #7)(1:g1:)(1:y128:2o62,Tj/
rRi3sSS iCAYNYbVtAHKi7(UPp)?Od{'R^f)(9:protected25:openpgp-s2k3-sha1-aes-
cbc((4:sha18:fw`E7:5242880)16:aqR)192:5f1a-`{^EV699WoB\,:Rs1*W6Lu iZ
:=ZqURM47;pA3#DL
so8O)Th^P@lP0&.DR;"rkN7)(12:protected-at15:20101008T070216)))
For a list of the authors of the source code of GPGME, please see the
file AUTHORS.  The following people supported GPGME development in
various ways (for example by finding bugs or giving advice), and we
want to thank them for their help.  If we forgot you, please let us
know.

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Alfons Hoogervorst      alfons@proteus.demon.nl
Daniel Mueller  daniel@danm.de
```

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Trevor King wking@tremily.us

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This file is distributed in the hope that it will be useful, but
WITHOUT ANY WARRANTY, to the extent permitted by law; without even the
implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.
This is a template. The dist target uses it to create the real file.
Summary: GPGME - GnuPG Made Easy
Name: gpgme
Version: 1.13.1
Release: 1
URL: https://gnupg.org/gpgme.html
Source: https://www.gnupg.org/ftp/gcrypt/gpgme/%{name}-%{version}.tar.gz
Group: Development/Libraries
Copyright: GPL
BuildRoot: %{_tmppath}/%{name}-%{version}
BuildRequires: make
Prereq: /sbin/ldconfig /sbin/install-info
Requires: gnupg

%description
GnuPG Made Easy (GPGME) is a library designed to make access to GnuPG easier
for applications. It provides a High-Level Crypto API for encryption,
decryption, signing, signature verification and key management.

%prep
%setup -q

```
%build
CFLAGS="$RPM_OPT_FLAGS"; export CFLAGS
./configure --prefix=/usr
make

%install
rm -fr $RPM_BUILD_ROOT
mkdir -p $RPM_BUILD_ROOT
make install prefix=$RPM_BUILD_ROOT/usr infodir=$RPM_BUILD_ROOT%{_infodir}
rm -f $RPM_BUILD_ROOT%{_infodir}/dir

%clean
rm -fr $RPM_BUILD_ROOT
make distclean

%post
/sbin/ldconfig
/sbin/install-info %{_infodir}/gpgme.info.gz
 %{_infodir}/dir
/sbin/install-info %{_infodir}/gpgme-python-howto.info.gz %{_infodir}/dir

%preun
if [ "$1" = 0 ]; then
/sbin/install-info --delete %{_infodir}/gpgme.info.gz %{_infodir}/dir
/sbin/install-info --delete %{_infodir}/gpgme-python-howto.info.gz %{_infodir}/dir
fi

%postun
/sbin/ldconfig

%files
%defattr(-,root,root)
%doc COPYING COPYING.LESSER AUTHORS README INSTALL NEWS ChangeLog TODO THANKS
%attr(0755,root,root) %{_bindir}/gpgme-config
%attr(0755,root,root) %{_libdir}/*gpgme.so*
%attr(0755,root,root) %{_libdir}/*gpgme.la
%attr(0644,root,root) %{_libdir}/*gpgme.a
%{_includedir}/gpgme.h
%{_datadir}/aclocal/gpgme.m4
%{_infodir}/gpgme.info*
%{_infodir}/gpgme-python-howto.info*

%changelog
* Sat Aug 30 2003 Robert Schiele <rschiele@uni-mannheim.de>
- %{_infodir}/dir is not packaged, remove to prevent checking failure
* Mon Jul 01 2002 Wojciech Polak <polak@lodz.pdi.net>
- initial specfile release for GPGME.
```

EOF

1.339 glib 2.56.4-158.el8

1.339.1 Available under license :

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Version 2.1, February 1999

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

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1.345 json-c 0.13.1-3.el8

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1.346 libcap 2.48-2.el8

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1.348 gojsonschema 1.2.0

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1.350 glibc 2.28-189.1.el8

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

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

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

@item
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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directing the user to the copy of
this License. Also, you must do one
of these things:

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

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

@item
Accompany the work with a written offer, valid for at
least three years, to give the same user the materials
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@item
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specified materials from the same place.

@item
Verify that the user has already received a copy of these
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@end enumerate

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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
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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
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restrictions of other proprietary libraries that do not normally
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@page
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1.353 audit 3.0.7-2.el8.2

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Any executables containing that work also fall under Section 6,
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1.354 e2fsprogs 1.45.6-4.el8

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

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file system consistency checker (e2fsck.static). The EXT2 utilities
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#
This is a Makefile stub which handles the creation of BSD shared
libraries.
#
In order to use this stub, the following makefile variables must be defined.
#
BSDLIB_VERSION = 1.0

```
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

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

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

image:  $(BSD_LIB)

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

install-shlibs install:: $(BSD_LIB)
 @echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
 @$(INSTALL_PROGRAM) $(BSD_LIB) \
  $(DESTDIR)$(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)
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==========
--- 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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Gadi Oxman, August 1995

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This is the Debian GNU/Linux prepackaged version of the EXT2 file
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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

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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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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
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facilities not covered by this License, and distribute such a combined
library, provided that the separate distribution of the work based on
the Library and of the other library facilities is otherwise
permitted, and provided that you do these two things:

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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

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`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!

1.356 paramiko 2.11.0

1.356.1 Available under license :

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Version 2.1, February 1999

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

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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
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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.

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

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Each licensee is addressed as "you".

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

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

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

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

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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.

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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.

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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
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c) Accompany the work with a written offer, valid for at
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies
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facilities not covered by this License, and distribute such a combined
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a) Accompany the combined library with a copy of the same work
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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
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1.357 python 3.9.13

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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
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
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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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1.6	1.5.2	2000	CNRI	no
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1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
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2.1.1	2.1+2.0.1	2001	PSF	yes
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1.363 perl-mozilla-ca 20160104-7.module_el8.5.0+2812+ed912d05

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```
NAME
  Mozilla::CA - Mozilla's CA cert bundle in PEM format

SYNOPSIS
     use IO::Socket::SSL;
     use Mozilla::CA;

     my $host = "www.paypal.com";
     my $client = IO::Socket::SSL->new(
        PeerHost => "$host:443",
        SSL_verify_mode => 0x02,
        SSL_ca_file => Mozilla::CA::SSL_ca_file(),
     )
        || die "Can't connect: $@";

     $client->verify_hostname($host, "http")
        || die "hostname verification failure";

DESCRIPTION
  Mozilla::CA provides a copy of Mozilla's bundle of Certificate Authority
  certificates in a form that can be consumed by modules and libraries
  based on OpenSSL.

  The module provide a single function:

  SSL_ca_file()
     Returns the absolute path to the Mozilla's CA cert bundle PEM file.

SEE ALSO
  <http://curl.haxx.se/docs/caextract.html>

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     file, You can obtain one at http://mozilla.org/MPL/2.0/.

  The Mozilla::CA distribution itself is available under the same license.
```

Found in path(s):
* /perl-Mozilla-CA-20160104-7.module_el8.5.0+2812+ed912d05.src.rpm-cosi-expand-archive-xJ7vxKlY/Mozilla-CA-20160104.tar.gz-cosi-expand-archive-3Vvjon9Y/Mozilla-CA-20160104/README
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---
abstract: "Mozilla's CA cert bundle in PEM format"
author:
 - 'Gisle Aas <gisle@activestate.com>'
build_requires:
 Test: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.02, CPAN::Meta::Converter version 2.142690'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: Mozilla-CA
no_index:
 directory:
   - t
   - inc
requires:
 perl: '5.006'
resources:
 repository: http://github.com/gisle/mozilla-ca
version: '20160104'

Found in path(s):
* /perl-Mozilla-CA-20160104-7.module_el8.5.0+2812+ed912d05.src.rpm-cosi-expand-archive-xJ7vxKlY/Mozilla-CA-20160104.tar.gz-cosi-expand-archive-3Vvjon9Y/Mozilla-CA-20160104/META.yml
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=head1 NAME

Mozilla::CA - Mozilla's CA cert bundle in PEM format

=head1 SYNOPSIS

```
  use IO::Socket::SSL;
  use Mozilla::CA;

  my $host = "www.paypal.com";
  my $client = IO::Socket::SSL->new(
 PeerHost => "$host:443",
 SSL_verify_mode => 0x02,
 SSL_ca_file => Mozilla::CA::SSL_ca_file(),
  )
|| die "Can't connect: $@";

  $client->verify_hostname($host, "http")
|| die "hostname verification failure";
```

=head1 DESCRIPTION

Mozilla::CA provides a copy of Mozilla's bundle of Certificate Authority
certificates in a form that can be consumed by modules and libraries
based on OpenSSL.

The module provide a single function:

=over

=item SSL_ca_file()

Returns the absolute path to the Mozilla's CA cert bundle PEM file.

=back

=head1 SEE ALSO

L<http://curl.haxx.se/docs/caextract.html>

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=over

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

License: MPLv2.0

Found in path(s):
* /perl-Mozilla-CA-20160104-7.module_el8.5.0+2812+ed912d05.src.rpm-cosi-expand-archive-xJ7vxKlY/perl-Mozilla-CA.spec

1.364 perl-io-socket-ssl 2.066-4.module_el8.6.0+2811+fe6c84b0

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Found in path(s):
* /perl-IO-Socket-SSL-2.066-4.module_el8.6.0+2811+fe6c84b0.src.rpm-cosi-expand-archive-0X12HeuT/IO-Socket-SSL-2.066.tar.gz-cosi-expand-archive-pGhmkBIu/IO-Socket-SSL-2.066/lib/IO/Socket/SSL/PublicSuffix.pm
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Found in path(s):
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No license file was found, but licenses were detected in source scan.

=head1 NAME

IO::Socket::SSL - SSL sockets with IO::Socket interface

=head1 SYNOPSIS

```
use strict;
use IO::Socket::SSL;

# simple client
my $cl = IO::Socket::SSL->new('www.google.com:443');
print $cl "GET / HTTP/1.0\r\n\r\n";
print <$cl>;
```

```
  # simple server
  my $srv = IO::Socket::SSL->new(
 LocalAddr => '0.0.0.0:1234',
 Listen => 10,
 SSL_cert_file => 'server-cert.pem',
 SSL_key_file => 'server-key.pem',
  );
  $srv->accept;
```

=head1 DESCRIPTION

IO::Socket::SSL makes using SSL/TLS much easier by wrapping the necessary functionality into the familiar L<IO::Socket> interface and providing secure defaults whenever possible.
This way, existing applications can be made SSL-aware without much effort, at least if you do blocking I/O and don't use select or poll.

But, under the hood, SSL is a complex beast.
So there are lots of methods to make it do what you need if the default behavior is not
 adequate.
Because it is easy to inadvertently introduce critical security bugs or just hard to debug problems, I would recommend studying the following documentation carefully.

The documentation consists of the following parts:

=over 4

=item * L</"Essential Information About SSL/TLS">

=item * L</"Basic SSL Client">

=item * L</"Basic SSL Server">

=item * L</"Common Usage Errors">

=item * L</"Common Problems with SSL">

=item * L</"Using Non-Blocking Sockets">

=item * L</"Advanced Usage">

=item * L</"Integration Into Own Modules">

=item * L</"Description Of Methods">

=back

Additional documentation can be found in

=over 4

=item * L<IO::Socket::SSL::Intercept> - Doing Man-In-The-Middle with SSL

=item * L<IO::Socket::SSL::Utils> - Useful functions for certificates etc

=back

=head1 Essential Information About SSL/TLS

SSL (Secure Socket Layer) or its successor TLS (Transport Layer Security) are
protocols to facilitate end-to-end security. These protocols are used when
accessing
 web sites (https), delivering or retrieving email, and in lots of other
use cases.
In the following documentation we will refer to both SSL and TLS as simply 'SSL'.

SSL enables end-to-end security by providing two essential functions:

=over 4

=item Encryption

This part encrypts the data for transit between the communicating parties, so
that nobody in between can read them. It also provides tamper resistance so that
nobody in between can manipulate the data.

=item Identification

This part makes sure that you talk to the right peer.
If the identification is done incorrectly it is easy to mount man-in-the-middle
attacks, e.g. if Alice wants to talk to Bob it would be possible for Mallory to
put itself in the middle, so that Alice talks to Mallory and Mallory to Bob.
All the data would still be encrypted, but not end-to-end between Alice and Bob,
but only between Alice and Mallory and then between Mallory and Bob.
Thus Mallory would be able to read and modify all traffic between
 Alice and Bob.

=back

Identification is the part which is the hardest to understand and the easiest
to get wrong.

With SSL, the Identification is usually done with B<certificates> inside a B<PKI> (Public Key Infrastructure).
These Certificates are comparable to an identity card, which contains information about the owner of the card. The card then is somehow B<signed> by the B<issuer> of the card, the B<CA> (Certificate Agency).

To verify the identity of the peer the following must be done inside SSL:

=over 4

=item *

Get the certificate from the peer.
If the peer does not present a certificate we cannot verify it.

=item *

Check if we trust the certificate, e.g. make sure it's not a forgery.

We believe that a certificate is not a fake if we either know the certificate already or if we B<trust> the issuer (the CA) and can verify the issuers signature on the certificate.
In reality there is often a hierarchy of certificate agencies and we only directly trust the root of this
hierarchy.
In this case the peer not only sends his own certificate, but also all B<intermediate certificates>.
Verification will be done by building a B<trust path> from the trusted root up to the peers certificate and checking in each step if the we can verify the issuer's signature.

This step often causes problems because the client does not know the necessary trusted root certificates. These are usually stored in a system dependent CA store, but often the browsers have their own CA store.

=item *

Check if the certificate is still valid.
Each certificate has a lifetime and should not be used after that time because it might be compromised or the underlying cryptography got broken in the mean time.

=item *

Check if the subject of the certificate matches the peer.
This is like comparing the picture on the identity card against the person representing the identity card.

When connecting to a server this is usually done by comparing the hostname used for connecting against the names
 represented in the certificate.
A certificate might contain multiple names or wildcards, so that it can be used for multiple hosts (e.g. *.example.com and *.example.org).

Although nobody sane would accept an identity card where the picture does not match the person we see, it is a common implementation error with SSL to omit this check or get it wrong.

=item *

Check if the certificate was revoked by the issuer.
This might be the case if the certificate was compromised somehow and now somebody else might use it to claim the wrong identity.
Such revocations happened a lot after the heartbleed attack.

For SSL there are two ways to verify a revocation, CRL and OCSP.
With CRLs (Certificate Revocation List) the CA provides a list of serial numbers for revoked certificates. The client somehow has to download the list (which can be huge) and keep it up to date.
With OCSP (Online Certificate Status Protocol) the client can check a single certificate directly by asking the issuer.

Revocation
 is the hardest part of the verification and none of today's browsers get it fully correct. But, they are still better than most other implementations which don't implement revocation checks or leave the hard parts to the developer.

=back

When accessing a web site with SSL or delivering mail in a secure way the identity is usually only checked one way, e.g. the client wants to make sure it talks to the right server, but the server usually does not care which client it talks to.
But, sometimes the server wants to identify the client too and will request a certificate from the client which the server must verify in a similar way.

=head1 Basic SSL Client

A basic SSL client is simple:

```
  my $client = IO::Socket::SSL->new('www.example.com:443')
or die "error=$!, ssl_error=$SSL_ERROR";
```

This will take the OpenSSL default CA store as the store for the trusted CA.

This usually works on UNIX systems.
If there are no certificates in the store it will try use L<Mozilla::CA> which provides
the default CAs of Firefox.

In the default settings, L<IO::Socket::SSL> will use a safer cipher set and SSL version, do a proper hostname check against the certificate, and use SNI (server name indication) to send the hostname inside the SSL handshake. This is necessary to work with servers which have different certificates behind the same IP address.
It will also check the revocation of the certificate with OCSP, but currently only if the server provides OCSP stapling (for deeper checks see C<ocsp_resolver> method).

Lots of options can be used to change ciphers, SSL version, location of CA and much more. See documentation of methods for details.

With protocols like SMTP it is necessary to upgrade an existing socket to SSL. This can be done like this:

```
  my $client = IO::Socket::INET->new('mx.example.com:25') or die $!;
  # .. read greeting from server
  # .. send EHLO and read response
  # .. send STARTTLS command and read response
  # .. if response was successful we
 can upgrade the socket to SSL now:
  IO::Socket::SSL->start_SSL($client,
 # explicitly set hostname we should use for SNI
 SSL_hostname => 'mx.example.com'
  ) or die $SSL_ERROR;
```

A more complete example for a simple HTTP client:

```
  my $client = IO::Socket::SSL->new(
 # where to connect
 PeerHost => "www.example.com",
 PeerPort => "https",

 # certificate verification - VERIFY_PEER is default
 SSL_verify_mode => SSL_VERIFY_PEER,

 # location of CA store
 # need only be given if default store should not be used
 SSL_ca_path => '/etc/ssl/certs', # typical CA path on Linux
 SSL_ca_file => '/etc/ssl/cert.pem', # typical CA file on BSD

 # or just use default path on system:
 IO::Socket::SSL::default_ca(), # either explicitly
```

```
 # or implicitly by not giving SSL_ca_*

 # easy hostname verification
 # It will use PeerHost as default name a verification
 # scheme as default, which is safe enough for most purposes.
 SSL_verifycn_name => 'foo.bar',
 SSL_verifycn_scheme => 'http',

 # SNI
 support - defaults to PeerHost
 SSL_hostname => 'foo.bar',

   ) or die "failed connect or ssl handshake: $!,$SSL_ERROR";

   # send and receive over SSL connection
   print $client "GET / HTTP/1.0\r\n\r\n";
   print <$client>;
```

And to do revocation checks with OCSP (only available with OpenSSL 1.0.0 or higher and L<Net::SSLeay> 1.59 or higher):

```
   # default will try OCSP stapling and check only leaf certificate
   my $client = IO::Socket::SSL->new($dst);

   # better yet: require checking of full chain
   my $client = IO::Socket::SSL->new(
 PeerAddr => $dst,
 SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN,
   );

   # even better: make OCSP errors fatal
   # (this will probably fail with lots of sites because of bad OCSP setups)
   # also use common OCSP response cache
   my $ocsp_cache = IO::Socket::SSL::OCSP_Cache->new;
   my $client = IO::Socket::SSL->new(
 PeerAddr => $dst,
 SSL_ocsp_mode => SSL_OCSP_FULL_CHAIN|SSL_OCSP_FAIL_HARD,
 SSL_ocsp_cache => $ocsp_cache,
   );

   #
 disable OCSP stapling in case server has problems with it
   my $client = IO::Socket::SSL->new(
 PeerAddr => $dst,
 SSL_ocsp_mode => SSL_OCSP_NO_STAPLE,
   );

   # check any certificates which are not yet checked by OCSP stapling or
```

```
  # where we have already cached results. For your own resolving combine
  # $ocsp->requests with $ocsp->add_response(uri,response).
  my $ocsp = $client->ocsp_resolver();
  my $errors = $ocsp->resolve_blocking();
  if ($errors) {
 warn "OCSP verification failed: $errors";
 close($client);
  }
```

=head1 Basic SSL Server

A basic SSL server looks similar to other L<IO::Socket> servers, only that it
also contains settings for certificate and key:

```
  # simple server
  my $server = IO::Socket::SSL->new(
 # where to listen
 LocalAddr => '127.0.0.1',
 LocalPort => 8080,
 Listen => 10,

 # which certificate to offer
 # with SNI support there can be different certificates per hostname
 SSL_cert_file => 'cert.pem',
 SSL_key_file => 'key.pem',

 ) or die "failed to listen: $!";

  # accept client
  my $client = $server->accept or die
 "failed to accept or ssl handshake: $!,$SSL_ERROR";
```

This will automatically use a secure set of ciphers and SSL version and also
supports Forward Secrecy with (Elliptic-Curve) Diffie-Hellmann Key Exchange.

If you are doing a forking or threading server, we recommend that you do the SSL
handshake inside the new process/thread so that the master is free for new
connections.
We recommend this because a client with improper or slow SSL handshake could
make the server block in the handshake which would be bad to do on the
listening socket:

```
  # inet server
  my $server = IO::Socket::INET->new(
 # where to listen
 LocalAddr => '127.0.0.1',
 LocalPort => 8080,
 Listen => 10,
```

```
  );

  # accept client
  my $client = $server->accept or die;

  # SSL upgrade client (in new process/thread)
  IO::Socket::SSL->start_SSL($client,
 SSL_server => 1,
 SSL_cert_file => 'cert.pem',
 SSL_key_file =>
 'key.pem',
  ) or die "failed to ssl handshake: $SSL_ERROR";
```

Like with normal sockets, neither forking nor threading servers scale well.
It is recommended to use non-blocking sockets instead, see
L</"Using Non-Blocking Sockets">

=head1 Common Usage Errors

This is a list of typical errors seen with the use of L<IO::Socket::SSL>:

=over 4

=item *

Disabling verification with C<SSL_verify_mode>.

As described in L</"Essential Information About SSL/TLS">, a proper
identification of the peer is essential and failing to verify makes
Man-In-The-Middle attacks possible.

Nevertheless, lots of scripts and even public modules or applications disable
verification, because it is probably the easiest way to make the thing work
and usually nobody notices any security problems anyway.

If the verification does not succeed with the default settings, one can do the
following:

=over 8

=item *

Make sure the needed CAs are in the store, maybe use C<SSL_ca_file> or
C<SSL_ca_path> to specify a different
 CA store.

=item *

If the validation fails because the certificate is self-signed and that's what
you expect, you can use the C<SSL_fingerprint> option to accept specific
leaf certificates by their certificate or pubkey fingerprint.

=item *

If the validation failed because the hostname does not match and you cannot
access the host with the name given in the certificate, you can use
C<SSL_verifycn_name> to specify the hostname you expect in the certificate.

=back

A common error pattern is also to disable verification if they found no CA
store (different modules look at different "default" places).
Because L<IO::Socket::SSL> is now able to provide a usable CA store on most
platforms (UNIX, Mac OSX and Windows) it is better to use the defaults provided
by L<IO::Socket::SSL>.
If necessary these can be checked with the C<default_ca> method.

=item *

Polling of SSL sockets (e.g. select, poll and other event loops).

If you sysread one byte on a normal socket it will result in a
 syscall to read
one byte. Thus, if more than one byte is available on the socket it will be kept
in the network stack of your OS and the next select or poll call will return the
socket as readable.
But, with SSL you don't deliver single bytes. Multiple data bytes are packaged
and encrypted together in an SSL frame. Decryption can only be done on the whole
frame, so a sysread for one byte actually reads the complete SSL frame from the
socket, decrypts it and returns the first decrypted byte. Further sysreads will
return more bytes from the same frame until all bytes are returned and the
next SSL frame will be read from the socket.

Thus, in order to decide if you can read more data (e.g. if sysread will block)
you must check if there are still data in the current SSL frame by calling
C<pending> and if there are no data pending you might check the underlying
socket with select or poll.
Another way might be if you try to sysread at least 16kByte all the time.
16kByte is the maximum size
 of an SSL frame and because sysread returns data
from only a single SSL frame you can guarantee that there are no pending
data.

See also L</"Using Non-Blocking Sockets">.

=item *

Expecting exactly the same behavior as plain sockets.

IO::Socket::SSL tries to emulate the usual socket behavior as good as possible, but full emulation can not be done. Specifically a read on the SSL socket might also result in a write on the TCP socket or a write on the SSL socket might result in a read on the TCP socket. Also C<accept> and B<close> on the SSL socket will result in writing and reading data to the TCP socket too.

Especially the hidden writes might result in a connection reset if the underlying TCP socket is already closed by the peer. Unless signal PIPE is explicitly handled by the application this will ususally result in the application crashing. It is thus recommended to explicitly IGNORE signal PIPE so that the errors get propagated as EPIPE instead of causing a crash of the application.

=item
*

Set 'SSL_version' or 'SSL_cipher_list' to a "better" value.

L<IO::Socket::SSL> tries to set these values to reasonable, secure values which are compatible with the rest of the world.
But, there are some scripts or modules out there which tried to be smart and get more secure or compatible settings.
Unfortunately, they did this years ago and never updated these values, so they are still forced to do only 'TLSv1' (instead of also using TLSv12 or TLSv11).
Or they set 'HIGH' as the cipher list and thought they were secure, but did not notice that 'HIGH' includes anonymous ciphers, e.g. without identification of the peer.

So it is recommended to leave the settings at the secure defaults which L<IO::Socket::SSL> sets and which get updated from time to time to better fit the real world.

=item *

Make SSL settings inaccessible by the user, together with bad builtin settings.

Some modules use L<IO::Socket::SSL>, but don't make the SSL settings available to the user. This is often
combined with bad builtin settings or defaults (like switching verification off).

Thus the user needs to hack around these restrictions by using C<set_args_filter_hack> or similar.

=item *

Use of constants as strings.

Constants like C<SSL_VERIFY_PEER> or C<SSL_WANT_READ> should be used as constants and not be put inside quotes, because they represent numerical values.

=item *

Forking and handling the socket in parent and child.

A B<fork> of the process will duplicate the internal user space SSL state of the socket. If both master and child interact with the socket by using their own SSL state strange error messages will happen. Such interaction includes explicit or implicit B<close> of the SSL socket. To avoid this the socket should be explicitly closed with B<SSL_no_shutdown>.

=item *

Forking and executing a new process.

Since the SSL state is stored in user space it will be duplicated by a B<fork> but it will be lost when doing B<exec>. This means it is not possible to
simply
redirect stdin and stdout for the new process to the SSL socket by duplicating the relevant file handles. Instead explicitly exchanging plain data between child-process and SSL socket are needed.

=back

=head1 Common Problems with SSL

SSL is a complex protocol with multiple implementations and each of these has their own quirks. While most of these implementations work together, it often gets problematic with older versions, minimal versions in load balancers, or plain wrong setups.

Unfortunately these problems are hard to debug.
Helpful for debugging are a knowledge of SSL internals, wireshark and the use of the debug settings of L<IO::Socket::SSL> and L<Net::SSLeay>, which can both be set with C<$IO::Socket::SSL::DEBUG>.
The following debugs levels are defined, but used not in any consistent way:

=over 4

=item *

0 - No debugging (default).

=item *

1 - Print out errors from L<IO::Socket::SSL> and ciphers from L<Net::SSLeay>.

=item *

2 - Print also information about
 call flow from L<IO::Socket::SSL> and progress
information from L<Net::SSLeay>.

=item *

3 - Print also some data dumps from L<IO::Socket::SSL> and from L<Net::SSLeay>.

=back

Also, C<analyze-ssl.pl> from the ssl-tools repository at
L<https://github.com/noxxi/p5-ssl-tools> might be a helpful tool when debugging
SSL problems, as do the C<openssl> command line tool and a check with a
different SSL implementation (e.g. a web browser).

The following problems are not uncommon:

=over 4

=item *

Bad server setup: missing intermediate certificates.

It is a regular problem that administrators fail to include all necessary
certificates into their server setup, e.g. everything needed to build the trust
chain from the trusted root.
If they check the setup with the browser everything looks ok, because browsers
work around these problems by caching any intermediate certificates and apply
them to new connections if certificates are missing.

But, fresh browser profiles which have never seen these
 intermediates cannot
fill in the missing certificates and fail to verify; the same is true with
L<IO::Socket::SSL>.

=item *

Old versions of servers or load balancers which do not understand specific TLS
versions or croak on specific data.

From time to time one encounters an SSL peer, which just closes the connection inside the SSL handshake. This can usually be worked around by downgrading the SSL version, e.g. by setting C<SSL_version>. Modern Browsers usually deal with such servers by automatically downgrading the SSL version and repeat the connection attempt until they succeed.

Worse servers do not close the underlying TCP connection but instead just drop the relevant packet. This is harder to detect because it looks like a stalled connection. But downgrading the SSL version often works here too.

A cause of such problems are often load balancers or security devices, which have hardware acceleration and only a minimal (and less robust) SSL stack. They can often be detected because
they support much fewer ciphers than other
implementations.

=item *

Bad or old OpenSSL versions.

L<IO::Socket::SSL> uses OpenSSL with the help of the L<Net::SSLeay> library. It is recommend to have a recent version of this library, because it has more features and usually fewer known bugs.

=item *

Validation of client certificates fail.

Make sure that the purpose of the certificate allows use as ssl client (check with C<< openssl x509 -purpose >>, that the necessary root certificate is in the path specified by C<SSL_ca*> (or the default path) and that any intermediate certificates needed to build the trust chain are sent by the client.

=item *

Validation of self-signed certificate fails even if it is given with C<SSL_ca*> argument.

The C<SSL_ca*> arguments do not give a general trust store for arbitrary certificates but only specify a store for CA certificates which then can be used to verify other certificates. This especially means that certificates which are not a
CA get simply ignored, notably self-signed certificates which do not also have the CA-flag set.

This behavior of OpenSSL differs from the more general trust-store concept which can be found in browsers and where it is possible to simply added arbitrary certificates (CA or not) as trusted.

=back

=head1 Using Non-Blocking Sockets

If you have a non-blocking socket, the expected behavior on read, write, accept
or connect is to set C<$!> to EWOULDBLOCK if the operation cannot be completed
immediately. Note that EWOULDBLOCK is the same as EAGAIN on UNIX systems, but
is different on Windows.

With SSL, handshakes might occur at any time, even within an established
connection. In these cases it is necessary to finish the handshake before
you can read or write data. This might result in situations where you want to
read but must first finish the write of a handshake or where you want to write
but must first finish a read.
In these cases C<$!> is set to EAGAIN like expected, and additionally
C<$SSL_ERROR>
 is set to either SSL_WANT_READ or SSL_WANT_WRITE.
Thus if you get EWOULDBLOCK on a SSL socket you must check C<$SSL_ERROR> for
SSL_WANT_* and adapt your event mask accordingly.

Using readline on non-blocking sockets does not make much sense and I would
advise against using it.
And, while the behavior is not documented for other L<IO::Socket> classes, it
will try to emulate the behavior seen there, e.g. to return the received data
instead of blocking, even if the line is not complete. If an unrecoverable error
occurs it will return nothing, even if it already received some data.

Also, I would advise against using C<accept> with a non-blocking SSL object
because it might block and this is not what most would expect. The reason for
this is that C<accept> on a non-blocking TCP socket (e.g. L<IO::Socket::IP>,
L<IO::Socket::INET>..) results in a new TCP socket which does not inherit the
non-blocking behavior of the master socket. And thus, the initial SSL handshake
on the
 new socket inside C<IO::Socket::SSL::accept> will be done in a blocking
way. To work around this you are safer by doing a TCP accept and later upgrade the
TCP socket in a non-blocking way with C<start_SSL> and C<accept_SSL>.

```
  my $cl = IO::Socket::SSL->new($dst);
  $cl->blocking(0);
  my $sel = IO::Select->new($cl);
  while (1) {
 # with SSL a call for reading n bytes does not result in reading of n
 # bytes from the socket, but instead it must read at least one full SSL
 # frame. If the socket has no new bytes, but there are unprocessed data
```

```
# from the SSL frame can_read will block!

# wait for data on socket
$sel->can_read();

# new data on socket or eof
READ:
# this does not read only 1 byte from socket, but reads the complete SSL
# frame and then just returns one byte. On subsequent calls it than
# returns more byte of the same SSL frame until it needs to read the
# next frame.
my $n = sysread( $cl,my $buf,1);
if ( ! defined $n ) {
    die $! if not ${EWOULDBLOCK};

   next if $SSL_ERROR == SSL_WANT_READ;
    if ( $SSL_ERROR == SSL_WANT_WRITE ) {
 # need to write data on renegotiation
 $sel->can_write;
 next;
    }
    die "something went wrong: $SSL_ERROR";
} elsif ( ! $n ) {
    last; # eof
} else {
    # read next bytes
    # we might have still data within the current SSL frame
    # thus first process these data instead of waiting on the underlying
    # socket object
    goto READ if $cl->pending;    # goto sysread
    next;                       # goto $sel->can_read
}
  }
```

Additionally there are differences to plain sockets when using select, poll,
kqueue or similar technologies to get notified if data are available.
Relying only on these calls is not sufficient in all cases since unread data
might be internally buffered in the SSL stack. To detect such buffering
B<pending()> need to be used. Alternatively the buffering can be avoided by using
B<sysread> with the maximum size of an SSL frame. See L</"Common Usage
 Errors">
for details.

=head1 Advanced Usage

=head2 SNI Support

Newer extensions to SSL can distinguish between multiple hostnames on the same
IP address using Server Name Indication (SNI).

Support for SNI on the client side was added somewhere in the OpenSSL 0.9.8
series, but with 1.0 a bug was fixed when the server could not decide about
its hostname. Therefore client side SNI is only supported with OpenSSL 1.0 or
higher in L<IO::Socket::SSL>.
With a supported version, SNI is used automatically on the client side, if it
can determine the hostname from C<PeerAddr> or C<PeerHost> (which are synonyms
in the underlying IO::Socket:: classes and thus should never be set both or at
least not to different values).
On unsupported OpenSSL versions it will silently not use SNI.
The hostname can also be given explicitly given with C<SSL_hostname>, but in
this case it will throw in error, if SNI is not supported.
To check for support you might call C<< IO::Socket::SSL->can_client_sni() >>.

On
 the server side, earlier versions of OpenSSL are supported, but only together
with L<Net::SSLeay> version >= 1.50.
To check for support you might call C<< IO::Socket::SSL->can_server_sni() >>.
If server side SNI is supported, you might specify different certificates per
host with C<SSL_cert*> and C<SSL_key*>, and check the requested name using
C<get_servername>.

=head2 Talk Plain and SSL With The Same Socket

It is often required to first exchange some plain data and then upgrade the
socket to SSL after some kind of STARTTLS command. Protocols like FTPS even
need a way to downgrade the socket again back to plain.

The common way to do this would be to create a normal socket and use C<start_SSL>
to upgrade and stop_SSL to downgrade:

```
  my $sock = IO::Socket::INET->new(...) or die $!;
  ... exchange plain data on $sock until starttls command ...
  IO::Socket::SSL->start_SSL($sock,%sslargs) or die $SSL_ERROR;
  ... now $sock is an IO::Socket::SSL object ...
  ... exchange data
 with SSL on $sock until stoptls command ...
  $sock->stop_SSL or die $SSL_ERROR;
  ... now $sock is again an IO::Socket::INET object ...
```

But, lots of modules just derive directly from L<IO::Socket::INET>.
While this base class can be replaced with L<IO::Socket::SSL>, these modules cannot
easily support different base classes for SSL and plain data and switch between
these classes on a starttls command.

To help in this case, L<IO::Socket::SSL> can be reduced to a plain socket on

startup, and connect_SSL/accept_SSL/start_SSL can be used to enable SSL and
C<stop_SSL> to talk plain again:

```
  my $sock = IO::Socket::SSL->new(
 PeerAddr => ...
 SSL_startHandshake => 0,
 %sslargs
  ) or die $!;
  ... exchange plain data on $sock until starttls command ...
  $sock->connect_SSL or die $SSL_ERROR;
  ... now $sock is an IO::Socket::SSL object ...
  ... exchange data with SSL on $sock until stoptls command ...
  $sock->stop_SSL or die $SSL_ERROR;
  ... $sock is still an IO::Socket::SSL
 object ...
  ... but data exchanged again in plain ...
```

=head1 Integration Into Own Modules

L<IO::Socket::SSL> behaves similarly to other L<IO::Socket> modules and thus could
be integrated in the same way, but you have to take special care when using
non-blocking I/O (like for handling timeouts) or using select or poll.
Please study the documentation on how to deal with these differences.

Also, it is recommended to not set or touch most of the C<SSL_*> options, so
that they keep their secure defaults. It is also recommended to let the user
override these SSL specific settings without the need of global settings or hacks
like C<set_args_filter_hack>.

The notable exception is C<SSL_verifycn_scheme>.
This should be set to the hostname verification scheme required by the module or
protocol.

=head1 Description Of Methods

L<IO::Socket::SSL> inherits from another L<IO::Socket> module.
The choice of the super class depends on the installed modules:

=over 4

=item *

If

L<IO::Socket::IP> with at least version 0.20 is installed it will use this
module as super class, transparently providing IPv6 and IPv4 support.

=item *

If L<IO::Socket::INET6> is installed it will use this module as super class,
transparently providing IPv6 and IPv4 support.

=item *

Otherwise it will fall back to L<IO::Socket::INET>, which is a perl core module.
With L<IO::Socket::INET> you only get IPv4 support.

=back

Please be aware that with the IPv6 capable super classes, it will look first
for the IPv6 address of a given hostname. If the resolver provides an IPv6
address, but the host cannot be reached by IPv6, there will be no automatic
fallback to IPv4.
To avoid these problems you can enforce IPv4 for a specific socket by
using the C<Domain> or C<Family> option with the value AF_INET as described in
L<IO::Socket::IP>. Alternatively you can enforce IPv4 globally by loading
L<IO::Socket::SSL> with the option 'inet4', in which case it will use the IPv4
only class L<IO::Socket::INET>
as the super class.

L<IO::Socket::SSL> will provide all of the methods of its super class, but
sometimes it will override them to match the behavior expected from SSL or to
provide additional arguments.

The new or changed methods are described below, but please also read the
section about SSL specific error handling.

=over 4

=item Error Handling

If an SSL specific error occurs, the global variable C<$SSL_ERROR> will be set.
If the error occurred on an existing SSL socket, the method C<errstr> will
give access to the latest socket specific error.
Both C<$SSL_ERROR> and the C<errstr> method give a dualvar similar to C<$!>, e.g.
providing an error number in numeric context or an error description in string
context.

=item B<new(...)>

Creates a new L<IO::Socket::SSL> object. You may use all the friendly options

that came bundled with the super class (e.g. L<IO::Socket::IP>,
L<IO::Socket::INET>, ...) plus (optionally) the ones described below.
If you don't specify any SSL
 related options it will do its best in using
secure defaults, e.g. choosing good ciphers, enabling proper verification, etc.

=over 2

=item SSL_server

Set this option to a true value if the socket should be used as a server.
If this is not explicitly set it is assumed if the C<Listen> parameter is given
when creating the socket.

=item SSL_hostname

This can be given to specify the hostname used for SNI, which is needed if you
have multiple SSL hostnames on the same IP address. If not given it will try to
determine the hostname from C<PeerAddr>, which will fail if only an IP was given or if
this argument is used within C<start_SSL>.

If you want to disable SNI, set this argument to ''.

Currently only supported for the client side and will be ignored for the server
side.

See section "SNI Support" for details of SNI the support.

=item SSL_startHandshake

If this option is set to false (defaults to true) it will not start the SSL
handshake yet. This has to be done later with C<accept_SSL>
 or C<connect_SSL>.
Before the handshake is started read/write/etc. can be used to exchange plain
data.

=item SSL_keepSocketOnError

If this option is set to true (defaults to false) it will not close the
underlying TCP socket on errors. In most cases there is no real use for this
behavior since both sides of the TCP connection will probably have a
different idea of the current state of the connection.

=item SSL_ca | SSL_ca_file | SSL_ca_path

Usually you want to verify that the peer certificate has been signed by a
trusted certificate authority. In this case you should use this option to
specify the file (C<SSL_ca_file>) or directory (C<SSL_ca_path>) containing the

certificateZ<>(s) of the trusted certificate authorities.

C<SSL_ca_path> can also be an array or a string containing multiple path, where
the path are separated by the platform specific separator. This separator is
C<;> on DOS, Windows, Netware, C<,> on VMS and C<:> for all the other systems.
If multiple path are given
 at least one of these must be accessible.

You can also give a list of X509* certificate handles (like you get from
L<Net::SSLeay> or L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with C<SSL_ca>. These
will be added to the CA store before path and file and thus take precedence.
If neither SSL_ca, nor SSL_ca_file or SSL_ca_path are set it will use
C<default_ca()> to determine the user-set or system defaults.
If you really don't want to set a CA set SSL_ca_file or SSL_ca_path to
C<\undef> or SSL_ca to an empty list. (unfortunately C<''> is used by some
modules using L<IO::Socket::SSL> when CA is not explicitly given).

=item SSL_client_ca | SSL_client_ca_file

If verify_mode is VERIFY_PEER on the server side these options can be used to
set the list of acceptable CAs for the client. This way the client can select
they required certificate from a list of certificates.
The value for these options is similar to C<SSL_ca> and C<SSL_ca_file>.

=item SSL_fingerprint

Sometimes you have a self-signed
 certificate or a certificate issued by an
unknown CA and you really want to accept it, but don't want to disable
verification at all. In this case you can specify the fingerprint of the
certificate as C<'algo$hex_fingerprint'>. C<algo> is a fingerprint algorithm
supported by OpenSSL, e.g. 'sha1','sha256'... and C<hex_fingerprint> is the
hexadecimal representation of the binary fingerprint. Any colons inside the
hex string will be ignored.

If you want to use the fingerprint of the pubkey inside the certificate instead
of the certificate use the syntax C<'algopubhex_fingerprint'> instead.
To get the fingerprint of an established connection you can use
C<get_fingerprint>.

It is also possible to skip C<algo$>, i.e. only specifiy the fingerprint. In
this case the likely algorithms will be automatically detected based on the
length of the digest string.

You can specify a list of fingerprints in case you have several acceptable
certificates.
If a fingerprint matches the topmost (i.e.

leaf) certificate no additional
validations can make the verification fail.

=item SSL_cert_file | SSL_cert | SSL_key_file | SSL_key

If you create a server you usually need to specify a server certificate which
should be verified by the client. Same is true for client certificates, which
should be verified by the server.
The certificate can be given as a file with SSL_cert_file or as an internal
representation of an X509* object (like you get from L<Net::SSLeay> or
L<IO::Socket::SSL::Utils::PEM_xxx2cert>) with SSL_cert.
If given as a file it will automatically detect the format.
Supported file formats are PEM, DER and PKCS#12, where PEM and PKCS#12 can
contain the certificate and the chain to use, while DER can only contain a single
certificate.

If given as a list of X509* please note, that the all the chain certificates
(e.g. all except the first) will be "consumed" by openssl and will be freed
if the SSL context gets destroyed - so you should never free them yourself. But
the servers
certificate (e.g. the first) will not be consumed by openssl and
thus must be freed by the application.

For each certificate a key is need, which can either be given as a file with
SSL_key_file or as an internal representation of an EVP_PKEY* object with
SSL_key (like you get from L<Net::SSLeay> or
L<IO::Socket::SSL::Utils::PEM_xxx2key>).
If a key was already given within the PKCS#12 file specified by SSL_cert_file
it will ignore any SSL_key or SSL_key_file.
If no SSL_key or SSL_key_file was given it will try to use the PEM file given
with SSL_cert_file again, maybe it contains the key too.

If your SSL server should be able to use different certificates on the same IP
address, depending on the name given by SNI, you can use a hash reference
instead of a file with C<<hostname => cert_file>>.

If your SSL server should be able to use both RSA and ECDSA certificates for the
same domain/IP a similar hash reference like with SNI is given. The
domain names used to specify the additional
certificates should be
C<hostname%whatever>, i.e. C<hostname%ecc> or similar. This needs at least
OpenSSL 1.0.2. To let the server pick the certificate based on the clients
cipher preference C<SSL_honor_cipher_order> should be set to false.

In case certs and keys are needed but not given it might fall back to builtin
defaults, see "Defaults for Cert, Key and CA".

Examples:

```
SSL_cert_file => 'mycert.pem',
SSL_key_file => 'mykey.pem',

SSL_cert_file => {
  "foo.example.org" => 'foo-cert.pem',
  "foo.example.org%ecc" => 'foo-ecc-cert.pem',
  "bar.example.org" => 'bar-cert.pem',
  # used when nothing matches or client does not support SNI
  " => 'default-cert.pem',
  '%ecc' => 'default-ecc-cert.pem',
},
SSL_key_file => {
  "foo.example.org" => 'foo-key.pem',
  "foo.example.org%ecc" => 'foo-ecc-key.pem',
  "bar.example.org" => 'bar-key.pem',
  # used when nothing matches or client does not support SNI
  " => 'default-key.pem',
  '%ecc' => 'default-ecc-key.pem',
 }

=item SSL_passwd_cb

If your private key is encrypted, you might not want the default password prompt
from Net::SSLeay.  This option takes a reference to a subroutine that should
return the password required to decrypt your private key.

=item SSL_use_cert

If this is true, it forces IO::Socket::SSL to use a certificate and key, even if
you are setting up an SSL client.  If this is set to 0 (the default), then you
will only need a certificate and key if you are setting up a server.

SSL_use_cert will implicitly be set if SSL_server is set.
For convenience it is also set if it was not given but a cert was given for use
(SSL_cert_file or similar).


=item SSL_version

Sets the version of the SSL protocol used to transmit data.
'SSLv23' uses a handshake compatible with SSL2.0, SSL3.0 and TLS1.x, while
'SSLv2', 'SSLv3', 'TLSv1', 'TLSv1_1', 'TLSv1_2', or 'TLSv1_3' restrict
handshake and protocol to the specified version.
All values are case-insensitive.  Instead of 'TLSv1_1',
 'TLSv1_2', and
'TLSv1_3' one can also use 'TLSv11', 'TLSv12', and 'TLSv13'.  Support for
'TLSv1_1', 'TLSv1_2', and 'TLSv1_3' requires recent versions of Net::SSLeay
```

and openssl.

Independent from the handshake format you can limit to set of accepted SSL
versions by adding !version separated by ':'.

The default SSL_version is 'SSLv23:!SSLv3:!SSLv2' which means, that the
handshake format is compatible to SSL2.0 and higher, but that the successful
handshake is limited to TLS1.0 and higher, that is no SSL2.0 or SSL3.0 because
both of these versions have serious security issues and should not be used
anymore.
You can also use !TLSv1_1 and !TLSv1_2 to disable TLS versions 1.1 and 1.2 while
still allowing TLS version 1.0.

Setting the version instead to 'TLSv1' might break interaction with older
clients, which need and SSL2.0 compatible handshake. On the other
side some clients just close the connection when they receive a TLS version 1.1
request. In this case setting the version to
'SSLv23:!SSLv2:!SSLv3:!TLSv1_1:!TLSv1_2'
 might help.

=item SSL_cipher_list

If this option is set the cipher list for the connection will be set to the
given value, e.g. something like 'ALL:!LOW:!EXP:!aNULL'. Look into the OpenSSL
documentation (L<http://www.openssl.org/docs/apps/ciphers.html#CIPHER_STRINGS>)
for more details.

Unless you fail to contact your peer because of no shared ciphers it is
recommended to leave this option at the default setting. The default setting
prefers ciphers with forward secrecy, disables anonymous authentication and
disables known insecure ciphers like MD5, DES etc. This gives a grade A result
at the tests of SSL Labs.
To use the less secure OpenSSL builtin default (whatever this is) set
SSL_cipher_list to ''.

In case different cipher lists are needed for different SNI hosts a hash can be
given with the host as key and the cipher suite as value, similar to
B<SSL_cert*>.

=item SSL_honor_cipher_order

If this option is true the cipher order the server specified
 is used instead
of the order proposed by the client. This option defaults to true to make use of
our secure cipher list setting.

=item SSL_dh_file

To create a server which provides forward secrecy you need to either give the DH parameters or (better, because faster) the ECDH curve. This setting cares about DH parameters.

To support non-elliptic Diffie-Hellman key exchange a suitable file needs to be given here or the SSL_dh should be used with a appropriate value. See dhparam command in openssl for more information.

If neither C<SSL_dh_file> nor C<SSL_dh> are set a builtin DH parameter with a length of 2048 bit is used to offer DH key exchange by default. If you don't want this (e.g. disable DH key exchange) explicitly set this or the C<SSL_dh> parameter to undef.

=item SSL_dh

Like SSL_dh_file, but instead of giving a file you use a preloaded or generated DH*.

=item SSL_ecdh_curve

To create a server which provides forward secrecy you need to either give the DH parameters or (better,
because faster) the ECDH curve. This setting cares
about the ECDH curve(s).

To support Elliptic Curve Diffie-Hellmann key exchange the OID or NID of at least one suitable curve needs to be provided here.

With OpenSSL 1.1.0+ this parameter defaults to C<auto>, which means that it lets OpenSSL pick the best settings. If support for CTX_set_ecdh_auto is implemented in Net::SSLeay (needs at least version 1.86) it will use this to implement the same default. Otherwise it will default to C<prime256v1> (builtin of OpenSSL) in order to offer ECDH key exchange by default.

If setting groups or curves is supported by Net::SSLeay (needs at least version 1.86) then multiple curves can be given here in the order of the preference, i.e. C<P-521:P-384:P-256>. When used at the client side this will include the supported curves as extension in the TLS handshake.

If you don't want to have ECDH key exchange this could be set to undef or set C<SSL_ciphers> to exclude all of these ciphers.

You
can check if ECDH support is available by calling
C<< IO::Socket::SSL->can_ecdh >>.

=item SSL_verify_mode

This option sets the verification mode for the peer certificate.
You may combine SSL_VERIFY_PEER (verify_peer), SSL_VERIFY_FAIL_IF_NO_PEER_CERT
(fail verification if no peer certificate exists; ignored for clients),
SSL_VERIFY_CLIENT_ONCE (verify client once; ignored for clients).
See OpenSSL man page for SSL_CTX_set_verify for more information.

The default is SSL_VERIFY_NONE for server (e.g. no check for client
certificate) and SSL_VERIFY_PEER for client (check server certificate).

=item SSL_verify_callback

If you want to verify certificates yourself, you can pass a sub reference along
with this parameter to do so. When the callback is called, it will be passed:

=over 4

=item 1.
a true/false value that indicates what OpenSSL thinks of the certificate,

=item 2.
a C-style memory address of the certificate store,

=item 3.
a string containing the certificate's issuer attributes
 and owner attributes,
and

=item 4.
a string containing any errors encountered (0 if no errors).

=item 5.
a C-style memory address of the peer's own certificate (convertible to
PEM form with Net::SSLeay::PEM_get_string_X509()).

=item 6.
The depth of the certificate in the chain. Depth 0 is the leaf certificate.

=back

The function should return 1 or 0, depending on whether it thinks the
certificate is valid or invalid. The default is to let OpenSSL do all of the
busy work.

The callback will be called for each element in the certificate chain.

See the OpenSSL documentation for SSL_CTX_set_verify for more information.

=item SSL_verifycn_scheme

The scheme is used to correctly verify the identity inside the certificate
by using the hostname of the peer.
See the information about the verification schemes in B<verify_hostname>.

If you don't specify a scheme it will use 'default', but only complain loudly if
the name verification fails instead of letting the whole certificate
verification
 fail. THIS WILL CHANGE, e.g. it will let the certificate
verification fail in the future if the hostname does not match the certificate
!!!! To override the name used in verification use B<SSL_verifycn_name>.

The scheme 'default' is a superset of the usual schemes, which will accept the
hostname in common name and subjectAltName and allow wildcards everywhere.
While using this scheme is way more secure than no name verification at all you
better should use the scheme specific to your application protocol, e.g. 'http',
'ftp'...

If you are really sure, that you don't want to verify the identity using the
hostname you can use 'none' as a scheme. In this case you'd better have
alternative forms of verification, like a certificate fingerprint or do a manual
verification later by calling B<verify_hostname> yourself.

=item SSL_verifycn_publicsuffix

This option is used to specify the behavior when checking wildcards certificates
for public suffixes, e.g. no wildcard certificates
 for *.com or *.co.uk should
be accepted, while *.example.com or *.example.co.uk is ok.

If not specified it will simply use the builtin default of
L<IO::Socket::SSL::PublicSuffix>, you can create another object with
from_string or from_file of this module.

To disable verification of public suffix set this option to C<">.

=item SSL_verifycn_name

Set the name which is used in verification of hostname. If SSL_verifycn_scheme
is set and no SSL_verifycn_name is given it will try to use SSL_hostname or
PeerHost and PeerAddr settings and fail if no name can be determined.
If SSL_verifycn_scheme is not set it will use a default scheme and warn if it
cannot determine a hostname, but it will not fail.

Using PeerHost or PeerAddr works only if you create the connection directly
with C<< IO::Socket::SSL->new >>, if an IO::Socket::INET object is upgraded
with B<start_SSL> the name has to be given in B<SSL_verifycn_name> or
B<SSL_hostname>.

=item SSL_check_crl

If you want to verify that the
peer certificate has not been revoked
by the signing authority, set this value to true. OpenSSL will search
for the CRL in your SSL_ca_path, or use the file specified by
SSL_crl_file. See the Net::SSLeay documentation for more details.
Note that this functionality appears to be broken with OpenSSL <
v0.9.7b, so its use with lower versions will result in an error.

=item SSL_crl_file

If you want to specify the CRL file to be used, set this value to the
pathname to be used. This must be used in addition to setting
SSL_check_crl.

=item SSL_ocsp_mode

Defines how certificate revocation is done using OCSP (Online Status Revocation
Protocol). The default is to send a request for OCSP stapling to the server and
if the server sends an OCSP response back the result will be used.

Any other OCSP checking needs to be done manually with C<ocsp_resolver>.

The following flags can be combined with C<|>:

=over 8

=item SSL_OCSP_NO_STAPLE

Don't ask for OCSP stapling.
This is the default if SSL_verify_mode
is VERIFY_NONE.

=item SSL_OCSP_TRY_STAPLE

Try OCSP stapling, but don't complain if it gets no stapled response back.
This is the default if SSL_verify_mode is VERIFY_PEER (the default).

=item SSL_OCSP_MUST_STAPLE

Consider it a hard error, if the server does not send a stapled OCSP response
back. Most servers currently send no stapled OCSP response back.

=item SSL_OCSP_FAIL_HARD

Fail hard on response errors, default is to fail soft like the browsers do.

Soft errors mean, that the OCSP response is not usable, e.g. no response, error response, no valid signature etc.
Certificate revocations inside a verified response are considered hard errors in any case.

Soft errors inside a stapled response are never considered hard, e.g. it is expected that in this case an OCSP request will be send to the responsible OCSP responder.

=item SSL_OCSP_FULL_CHAIN

This will set up the C<ocsp_resolver> so that all certificates from the peer chain will be checked, otherwise only the leaf
certificate will be checked
against revocation.

=back

=item SSL_ocsp_staple_callback

If this callback is defined, it will be called with the SSL object and the OCSP response handle obtained from the peer, e.g. C<<$cb->($ssl,$resp)>>.
If the peer did not provide a stapled OCSP response the function will be called with C<$resp=undef>.
Because the OCSP response handle is no longer valid after leaving this function it should not by copied or freed. If access to the response is necessary after leaving this function it can be serialized with C<Net::SSLeay::i2d_OCSP_RESPONSE>.

If no such callback is provided, it will use the default one, which verifies the response and uses it to check if the certificate(s) of the connection got revoked.

=item SSL_ocsp_cache

With this option a cache can be given for caching OCSP responses, which could be shared between different SSL contexts. If not given a cache specific to the SSL context only will be used.

You can either create a new cache with
C<<
IO::Socket::SSL::OCSP_Cache->new([size]) >> or implement your own cache, which needs to have methods C<put($key,\%entry)> and C<get($key)> (returning C<\%entry>) where entry is the hash representation of the OCSP response with fields like C<nextUpdate>. The default implementation of the cache will consider responses valid as long as C<nextUpdate> is less then the current time.

=item SSL_reuse_ctx

If you have already set the above options for a previous instance of
IO::Socket::SSL, then you can reuse the SSL context of that instance by passing
it as the value for the SSL_reuse_ctx parameter. You may also create a
new instance of the IO::Socket::SSL::SSL_Context class, using any context
options that you desire without specifying connection options, and pass that
here instead.

If you use this option, all other context-related options that you pass
in the same call to new() will be ignored unless the context supplied was
invalid. Note that, contrary to versions of IO::Socket::SSL below
 v0.90, a
global SSL context will not be implicitly used unless you use the
set_default_context() function.

=item SSL_create_ctx_callback

With this callback you can make individual settings to the context after it
got created and the default setup was done.
The callback will be called with the CTX object from Net::SSLeay as the single
argument.

Example for limiting the server session cache size:

```
 SSL_create_ctx_callback => sub {
    my $ctx = shift;
    Net::SSLeay::CTX_sess_set_cache_size($ctx,128);
 }
```

=item SSL_session_cache_size

If you make repeated connections to the same host/port and the SSL renegotiation
time is an issue, you can turn on client-side session caching with this option
by specifying a positive cache size. For successive connections, pass the
SSL_reuse_ctx option to the new() calls (or use set_default_context()) to make
use of the cached sessions. The session cache size refers to the number of
unique host/port pairs that can be stored at one time; the
 oldest sessions in
the cache will be removed if new ones are added.

This option does not effect the session cache a server has for it's clients,
e.g. it does not affect SSL objects with SSL_server set.

Note that session caching with TLS 1.3 needs at least Net::SSLeay 1.86.

=item SSL_session_cache

Specifies session cache object which should be used instead of creating a new.

Overrules SSL_session_cache_size.
This option is useful if you want to reuse the cache, but not the rest of
the context.

A session cache object can be created using
C<< IO::Socket::SSL::Session_Cache->new(cachesize) >>.

Use set_default_session_cache() to set a global cache object.

=item SSL_session_key

Specifies a key to use for lookups and inserts into client-side session cache.
Per default ip:port of destination will be used, but sometimes you want to
share the same session over multiple ports on the same server (like with FTPS).

=item SSL_session_id_context

This gives an id for the servers session cache.
It's necessary if you want
clients to connect with a client certificate. If not given but SSL_verify_mode
specifies the need for client certificate a context unique id will be picked.

=item SSL_error_trap

When using the accept() or connect() methods, it may be the case that the
actual socket connection works but the SSL negotiation fails, as in the case of
an HTTP client connecting to an HTTPS server. Passing a subroutine ref attached
to this parameter allows you to gain control of the orphaned socket instead of
having it be closed forcibly.
The subroutine, if called, will be passed two parameters:
a reference to the socket on which the SSL negotiation failed and the full
text of the error message.

=item SSL_npn_protocols

If used on the server side it specifies list of protocols advertised by SSL
server as an array ref, e.g. ['spdy/2','http1.1'].
On the client side it specifies the protocols offered by the client for NPN
as an array ref.
See also method C<next_proto_negotiated>.

Next
Protocol Negotiation (NPN) is available with Net::SSLeay 1.46+ and
openssl-1.0.1+. NPN is unavailable in TLSv1.3 protocol.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.
If you use this option with an unsupported Net::SSLeay/OpenSSL it will
throw an error.

=item SSL_alpn_protocols

If used on the server side it specifies list of protocols supported by the SSL
server as an array ref, e.g. ['http/2.0', 'spdy/3.1','http/1.1'].
On the client side it specifies the protocols advertised by the client for ALPN
as an array ref.
See also method C<alpn_selected>.

Application-Layer Protocol Negotiation (ALPN) is available with Net::SSLeay
1.56+ and openssl-1.0.2+. More details about the extension are in RFC7301. To
check support you might call C<< IO::Socket::SSL->can_alpn() >>. If you use
this option with an unsupported Net::SSLeay/OpenSSL it will throw an error.

Note that some client implementations may encounter problems if both NPN and
ALPN are specified. Since
ALPN is intended as a replacement for NPN, try
providing ALPN protocols then fall back to NPN if that fails.

=item SSL_ticket_keycb => [$sub,$data] | $sub

This is a callback used for stateless session reuse (Session Tickets, RFC 5077).

This callback will be called as C<< $sub->($data,[$key_name]) >> where C<$data>
is the argument given to SSL_ticket_keycb (or undef) and C<$key_name> depends
on the mode:

=over 8

=item encrypt ticket

If a ticket needs to be encrypted the callback will be called without
C<$key_name>. In this case it should return C<($current_key,$current_key_name>)
where C<$current_key> is the current key (32 byte random data) and
C<$current_key_name> the name associated with this key (exactly 16 byte). This
C<$current_key_name> will be incorporated into the ticket.

=item decrypt ticket

If a ticket needs to be decrypted the callback will be called with C<$key_name>
as found in the ticket. It should return C<($key,$current_key_name>) where
C<$key> is the key associated
with the given C<$key_name> and
C<$current_key_name> the name associated with the currently active key.
If C<$current_key_name> is different from the given C<$key_name> the callback
will be called again to re-encrypt the ticket with the currently active key.

If no key can be found which matches the given C<$key_name> then this function
should return nothing (empty list).

This mechanism should be used to limit the life time for each key encrypting the ticket. Compromise of a ticket encryption key might lead to decryption of SSL sessions which used session tickets protected by this key.

=back

Example:

```
  Net::SSLeay::RAND_bytes(my $oldkey,32);
  Net::SSLeay::RAND_bytes(my $newkey,32);
  my $oldkey_name = pack("a16",'oldsecret');
  my $newkey_name = pack("a16",'newsecret');

  my @keys = (
    [ $newkey_name, $newkey ], # current active key
    [ $oldkey_name, $oldkey ], # already expired
  );

  my $keycb = [ sub {
    my ($mykeys,$name) = @_;

    #
 return (current_key, current_key_name) if no name given
    return ($mykeys->[0][1],$mykeys->[0][0]) if ! $name;

    # return (matching_key, current_key_name) if we find a key matching
    # the given name
    for(my $i = 0; $i<@$mykeys; $i++) {
   next if $name ne $mykeys->[$i][0];
   return ($mykeys->[$i][1],$mykeys->[0][0]);
    }

    # no matching key found
    return;
  },\@keys ];

  my $srv = IO::Socket::SSL->new(..., SSL_ticket_keycb => $keycb);
```

=back

=item B<accept>

This behaves similar to the accept function of the underlying socket class, but additionally does the initial SSL handshake. But because the underlying socket class does return a blocking file handle even when accept is called on a non-blocking socket, the SSL handshake on the new file object will be done in a

blocking way. Please see the section about non-blocking I/O for details.
If you don't like this behavior you should do accept on the TCP socket and then upgrade it with C<start_SSL>
later.

=item B<connect(...)>

This behaves similar to the connect function but also does an SSL handshake. Because you cannot give SSL specific arguments to this function, you should better either use C<new> to create a connect SSL socket or C<start_SSL> to upgrade an established TCP socket to SSL.

=item B<close(...)>

Contrary to a close for a simple INET socket a close in SSL also mandates a proper shutdown of the SSL part. This is done by sending a close notify message by both peers.

A naive implementation would thus wait until it receives the
close notify message from the peer - which conflicts with the commonly expected semantic that a close will not block. The default behavior is thus to only send a close notify but not wait for the close notify of the peer. If this is required C<SSL_fast_shutdown> need to be explicitly set to false.

There are also cases where a SSL shutdown should not be done at all. This is true for example when forking to let a child deal with the
socket and closing
the socket in the parent process. A naive explicit C<close> or an implicit close when destroying the socket in the parent would send a close notify to the peer which would make the SSL socket in the client process unusable. In this case an explicit C<close> with C<SSL_no_shutdown> set to true should be done in the parent process.

For more details and other arguments see C<stop_SSL> which gets called from C<close> to shutdown the SSL state of the socket.

=item B<sysread(BUF, LEN, [OFFSET])>

This function behaves from the outside the same as B<sysread> in other L<IO::Socket> objects, e.g. it returns at most LEN bytes of data.
But in reality it reads not only LEN bytes from the underlying socket, but at a single SSL frame. It then returns up to LEN bytes it decrypted from this SSL frame. If the frame contained more data than requested it will return only LEN data, buffer the rest and return it on further read calls.
This means, that it might be possible to read data,
even if the underlying
socket is not readable, so using poll or select might not be sufficient.

sysread will only return data from a single SSL frame, e.g. either the pending data from the already buffered frame or it will read a frame from the underlying socket and return the decrypted data. It will not return data spanning several SSL frames in a single call.

Also, calls to sysread might fail, because it must first finish an SSL handshake.

To understand these behaviors is essential, if you write applications which use event loops and/or non-blocking sockets. Please read the specific sections in this documentation.

=item B<syswrite(BUF, [LEN, [OFFSET]])>

This functions behaves from the outside the same as B<syswrite> in other L<IO::Socket> objects, e.g. it will write at most LEN bytes to the socket, but there is no guarantee, that all LEN bytes are written. It will return the number of bytes written.
Because it basically just calls SSL_write from OpenSSL syswrite will write at
most a single SSL frame. This means, that no more than 16.384 bytes, which is the maximum size of an SSL frame, will be written at once.

For non-blocking sockets SSL specific behavior applies.
Pease read the specific section in this documentation.

=item B<peek(BUF, LEN, [OFFSET])>

This function has exactly the same syntax as B<sysread>, and performs nearly the same task but will not advance the read position so that successive calls to peek() with the same arguments will return the same results. This function requires OpenSSL 0.9.6a or later to work.

=item B<pending()>

This function gives you the number of bytes available without reading from the underlying socket object. This function is essential if you work with event loops, please see the section about polling SSL sockets.

=item B<get_fingerprint([algo,certificate,pubkey])>

This methods returns the fingerprint of the given certificate in the form C<algo$digest_hex>, where C<algo> is the used algorithm, default 'sha256'. If
no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but instead the fingerprint of the pubkey inside the certificate as C<algopubdigest_hex>.

=item B<get_fingerprint_bin([algo,certificate,pubkey])>

This methods returns the binary fingerprint of the given certificate by using
the algorithm C<algo>, default 'sha256'.
If no certificate is given the peer certificate of the connection is used.
If C<pubkey> is true it will not return the fingerprint of the certificate but
instead the fingerprint of the pubkey inside the certificate.

=item B<get_cipher()>

Returns the string form of the cipher that the IO::Socket::SSL object is using.

=item B<get_sslversion()>

Returns the string representation of the SSL version of an established
connection.

=item B<get_sslversion_int()>

Returns the integer representation of the SSL version of an established
connection.

=item B<get_session_reused()>

This
 returns true if the session got reused and false otherwise. Note that with
a reused session no certificates are send within the handshake and no ciphers
are offered and thus functions which rely on this might not work.

=item B<dump_peer_certificate()>

Returns a parsable string with select fields from the peer SSL certificate.
This method directly returns the result of the dump_peer_certificate() method of
Net::SSLeay.

=item B<peer_certificate($field;[$refresh])>

If a peer certificate exists, this function can retrieve values from it.
If no field is given the internal representation of certificate from Net::SSLeay
is returned.
If refresh is true it will not used a cached version, but check again in case
the certificate of the connection has changed due to renegotiation.

The following fields can be queried:

=over 8

=item authority (alias issuer)

The certificate authority which signed the certificate.

=item owner (alias subject)

The owner of the certificate.

=item commonName
(alias cn) - only for Net::SSLeay version >=1.30

The common name, usually the server name for SSL certificates.

=item subjectAltNames - only for Net::SSLeay version >=1.33

Alternative names for the subject, usually different names for the same
server, like example.org, example.com, *.example.com.

It returns a list of (typ,value) with typ GEN_DNS, GEN_IPADD etc (these
constants are exported from IO::Socket::SSL).
See Net::SSLeay::X509_get_subjectAltNames.

=back

=item B<sock_certificate($field)>

This is similar to C<peer_certificate> but will return the sites own
certificate. The same arguments for B<$field> can be used.
If no B<$field> is given the certificate handle from the underlying OpenSSL will
be returned. This handle will only be valid as long as the SSL connection exists
and if used afterwards it might result in strange crashes of the application.

=item B<peer_certificates>

This returns all the certificates send by the peer, e.g. first the peers own
certificate
and then the rest of the chain. You might use B<CERT_asHash> from
L<IO::Socket::SSL::Utils> to inspect each of the certificates.

This function depends on a version of Net::SSLeay >= 1.58 .

=item B<get_servername>

This gives the name requested by the client if Server Name Indication
(SNI) was used.

=item B<verify_hostname($hostname,$scheme,$publicsuffix)>

This verifies the given hostname against the peer certificate using the
given scheme. Hostname is usually what you specify within the PeerAddr.
See the C<SSL_verifycn_publicsuffix> parameter for an explanation of suffix
checking and for the possible values.

Verification of hostname against a certificate is different between various
applications and RFCs. Some scheme allow wildcards for hostnames, some only
in subjectAltNames, and even their different wildcard schemes are possible.
RFC 6125 provides a good overview.

To ease the verification the following schemes are predefined (both protocol
name and rfcXXXX name can be used):

=over
 8

=item rfc2818, xmpp (rfc3920), ftp (rfc4217)

Extended wildcards in subjectAltNames and common name are possible, e.g.
.example.org or even www.example.org. The common
name will be only checked if no DNS names are given in subjectAltNames.

=item http (alias www)

While name checking is defined in rfc2818 the current browsers usually accept
also an IP address (w/o wildcards) within the common name as long as no
subjectAltNames are defined. Thus this is rfc2818 extended with this feature.

=item smtp (rfc2595), imap, pop3, acap (rfc4642), netconf (rfc5538), syslog (rfc5425), snmp (rfc5953)

Simple wildcards in subjectAltNames are possible, e.g. *.example.org matches
www.example.org but not lala.www.example.org. If nothing from subjectAltNames
match it checks against the common name, where wildcards are also allowed to
match the full leftmost label.

=item ldap (rfc4513)

Simple wildcards are allowed in subjectAltNames, but not in common name.
Common name will be checked even
 if subjectAltNames exist.

=item sip (rfc5922)

No wildcards are allowed and common name is checked even if subjectAltNames
exist.

=item gist (rfc5971)

Simple wildcards are allowed in subjectAltNames and common name, but common name will only be checked if their are no DNS names in subjectAltNames.

=item default

This is a superset of all the rules and is automatically used if no scheme is given but a hostname (instead of IP) is known.
Extended wildcards are allowed in subjectAltNames and common name and common name is checked always.

=item none

No verification will be done.
Actually is does not make any sense to call verify_hostname in this case.

=back

The scheme can be given either by specifying the name for one of the above predefined schemes, or by using a hash which can have the following keys and values:

=over 8

=item check_cn: 0|'always'|'when_only'

Determines if the common name gets checked. If 'always' it will always be checked (like in ldap), if 'when_only' it will
 only be checked if no names are
given in subjectAltNames (like in http), for any other values the common name will not be checked.

=item wildcards_in_alt: 0|'full_label'|'anywhere'

Determines if and where wildcards in subjectAltNames are possible. If 'full_label' only cases like *.example.org will be possible (like in ldap), for 'anywhere' www*.example.org is possible too (like http), dangerous things like but www.*.org or even '*' will not be allowed.
For compatibility with older versions 'leftmost' can be given instead of 'full_label'.

=item wildcards_in_cn: 0|'full_label'|'anywhere'

Similar to wildcards_in_alt, but checks the common name. There is no predefined scheme which allows wildcards in common names.

=item ip_in_cn: 0|1|4|6

Determines if an IP address is allowed in the common name (no wildcards are

allowed). If set to 4 or 6 it only allows IPv4 or IPv6 addresses, any other
true value allows both.

=item callback: \&coderef

If you give a subroutine for verification it
 will be called with the arguments
($hostname,$commonName,@subjectAltNames), where hostname is the name given for
verification, commonName is the result from peer_certificate('cn') and
subjectAltNames is the result from peer_certificate('subjectAltNames').

All other arguments for the verification scheme will be ignored in this case.

=back

=item B<next_proto_negotiated()>

This method returns the name of negotiated protocol - e.g. 'http/1.1'. It works
for both client and server side of SSL connection.

NPN support is available with Net::SSLeay 1.46+ and openssl-1.0.1+.
To check support you might call C<< IO::Socket::SSL->can_npn() >>.

=item B<alpn_selected()>

Returns the protocol negotiated via ALPN as a string, e.g. 'http/1.1',
'http/2.0' or 'spdy/3.1'.

ALPN support is available with Net::SSLeay 1.56+ and openssl-1.0.2+.
To check support, use C<< IO::Socket::SSL->can_alpn() >>.

=item B<errstr()>

Returns the last error (in string form) that occurred. If you do not have a
real object
 to perform this method on, call IO::Socket::SSL::errstr() instead.

For read and write errors on non-blocking sockets, this method may include the
string C<SSL wants a read first!> or C<SSL wants a write first!> meaning that
the other side is expecting to read from or write to the socket and wants to be
satisfied before you get to do anything. But with version 0.98 you are better
comparing the global exported variable $SSL_ERROR against the exported symbols
SSL_WANT_READ and SSL_WANT_WRITE.

=item B<opened()>

This returns false if the socket could not be opened, 1 if the socket could be
opened and the SSL handshake was successful done and -1 if the underlying

IO::Handle is open, but the SSL handshake failed.

=item B<< IO::Socket::SSL->start_SSL($socket, ...) >>

This will convert a glob reference or a socket that you provide to an IO::Socket::SSL object. You may also pass parameters to specify context or connection options as with a call to new(). If you are using this function on an accept()ed socket, you must set the parameter "SSL_server" to 1, i.e. IO::Socket::SSL->start_SSL($socket, SSL_server => 1). If you have a class that inherits from IO::Socket::SSL and you want the $socket to be blessed into your own class instead, use MyClass->start_SSL($socket) to achieve the desired effect.

Note that if start_SSL() fails in SSL negotiation, $socket will remain blessed in its original class. For non-blocking sockets you better just upgrade the socket to IO::Socket::SSL and call accept_SSL or connect_SSL and the upgraded object. To just upgrade the socket set B<SSL_startHandshake> explicitly to 0. If you call start_SSL w/o this parameter it will revert to blocking behavior for accept_SSL and connect_SSL.

If given the parameter "Timeout" it will stop if after the timeout no SSL connection was established. This parameter is only used for blocking sockets, if it is not given the default Timeout from the underlying IO::Socket will be used.

=item B<stop_SSL(...)>

This is the opposite of start_SSL(), connect_SSL() and accept_SSL(), e.g. it will shutdown the SSL connection and return to the class before start_SSL(). It gets the same arguments as close(), in fact close() calls stop_SSL() (but without downgrading the class).

Will return true if it succeeded and undef if failed. This might be the case for non-blocking sockets. In this case $! is set to EWOULDBLOCK and the ssl error to SSL_WANT_READ or SSL_WANT_WRITE. In this case the call should be retried again with the same arguments once the socket is ready.

For calling from C<stop_SSL> C<SSL_fast_shutdown> default to false, e.g. it waits for the close_notify of the peer. This is necessary in case you want to downgrade the socket and continue to use it as a plain socket.

After stop_SSL the socket can again be used to exchange plain data.

=item B<connect_SSL>, B<accept_SSL>

These functions should be used to do the relevant handshake, if the socket got

created with C<new> or upgraded with C<start_SSL>
and C<SSL_startHandshake> was
set to false.
They will return undef until the handshake succeeded or an error got thrown.
As long as the function returns undef and $! is set to EWOULDBLOCK one could
retry the call after the socket got readable (SSL_WANT_READ) or writeable
(SSL_WANT_WRITE).

=item B<ocsp_resolver>

This will create an OCSP resolver object, which can be used to create OCSP
requests for the certificates of the SSL connection. Which certificates are
verified depends on the setting of C<SSL_ocsp_mode>: by default only the leaf
certificate will be checked, but with SSL_OCSP_FULL_CHAIN all chain
certificates will be checked.

Because to create an OCSP request the certificate and its issuer certificate
need to be known it is not possible to check certificates when the trust chain
is incomplete or if the certificate is self-signed.

The OCSP resolver gets created by calling C<< $ssl->ocsp_resolver >> and
provides the following methods:

=over 8

=item hard_error

This
returns the hard error when checking the OCSP response.
Hard errors are certificate revocations. With the C<SSL_ocsp_mode> of
SSL_OCSP_FAIL_HARD any soft error (e.g. failures to get signed information
about the certificates) will be considered a hard error too.

The OCSP resolving will stop on the first hard error.

The method will return undef as long as no hard errors occurred and still
requests to be resolved. If all requests got resolved and no hard errors
occurred the method will return C<">.

=item soft_error

This returns the soft error(s) which occurred when asking the OCSP responders.

=item requests

This will return a hash consisting of C<(url,request)>-tuples, e.g. which
contain the OCSP request string and the URL where it should be sent too. The
usual way to send such a request is as HTTP POST request with a content-type

of C<application/ocsp-request> or as a GET request with the base64 and
url-encoded request is added to the path of the URL.

After you've handled all these
requests and added the response with
C<add_response> you should better call this method again to make sure, that no
more requests are outstanding. IO::Socket::SSL will combine multiple OCSP
requests for the same server inside a single request, but some server don't
give a response to all these requests, so that one has to ask again with the
remaining requests.

=item add_response($uri,$response)

This method takes the HTTP body of the response which got received when sending
the OCSP request to C<$uri>. If no response was received or an error occurred
one should either retry or consider C<$response> as empty which will trigger a
soft error.

The method returns the current value of C<hard_error>, e.g. a defined value
when no more requests need to be done.

=item resolve_blocking(%args)

This combines C<requests> and C<add_response> which L<HTTP::Tiny> to do all
necessary requests in a blocking way. C<%args> will be given to L<HTTP::Tiny>
so that you can put proxy settings etc here.
L<HTTP::Tiny> will be called with
C<verify_SSL> of false, because the OCSP responses have their own signatures so
no extra SSL verification is needed.

If you don't want to use blocking requests you need to roll your own user agent
with C<requests> and C<add_response>.

=back

=item B<< IO::Socket::SSL->new_from_fd($fd, [mode], %sslargs) >>

This will convert a socket identified via a file descriptor into an SSL socket.
Note that the argument list does not include a "MODE" argument; if you supply
one, it will be thoughtfully ignored (for compatibility with IO::Socket::INET).
Instead, a mode of '+<' is assumed, and the file descriptor passed must be able
to handle such I/O because the initial SSL handshake requires bidirectional
communication.

Internally the given $fd will be upgraded to a socket object using the
C<new_from_fd> method of the super class (L<IO::Socket::INET> or similar) and
then C<start_SSL> will be called using the given C<%sslargs>.
If C<$fd> is already an IO::Socket

object you should better call C<start_SSL>
directly.

=item B<IO::Socket::SSL::default_ca([path|dir| SSL_ca_file => ..., SSL_ca_path => ...])>

Determines or sets the default CA path.
If existing path or dir or a hash is given it will set the default CA path to
this value and never try to detect it automatically.
If C<undef> is given it will forget any stored defaults and continue with
detection of system defaults.
If no arguments are given it will start detection of system defaults, unless it
has already stored user-set or previously detected values.

The detection of system defaults works similar to OpenSSL, e.g. it will check
the directory specified in environment variable SSL_CERT_DIR or the path
OPENSSLDIR/certs (SSLCERTS: on VMS) and the file specified in environment
variable SSL_CERT_FILE or the path OPENSSLDIR/cert.pem (SSLCERTS:cert.pem on
VMS). Contrary to OpenSSL it will check if the SSL_ca_path contains PEM files
with the hash as file name and if the SSL_ca_file looks like
PEM.
If no usable system default can be found it will try to load and use
L<Mozilla::CA> and if not available give up detection.
The result of the detection will be saved to speed up future calls.

The function returns the saved default CA as hash with SSL_ca_file and
SSL_ca_path.

=item B<IO::Socket::SSL::set_default_context(...)>

You may use this to make IO::Socket::SSL automatically re-use a given context
(unless specifically overridden in a call to new()).
It accepts one argument, which should be either an IO::Socket::SSL object or an
IO::Socket::SSL::SSL_Context object.
See the SSL_reuse_ctx option of new() for more details.
Note that this sets the default context globally, so use with caution (esp. in
mod_perl scripts).

=item B<IO::Socket::SSL::set_default_session_cache(...)>

You may use this to make IO::Socket::SSL automatically re-use a given session
cache (unless specifically overridden in a call to new()).
It accepts one argument, which should be an IO::Socket::SSL::Session_Cache
object
or similar (e.g. something which implements get_session, add_session and
del_session like IO::Socket::SSL::Session_Cache does).
See the SSL_session_cache option of new() for more details.
Note that this sets the default cache globally, so use with caution.

=item B<IO::Socket::SSL::set_defaults(%args)>

With this function one can set defaults for all SSL_* parameter used for
creation of the context, like the SSL_verify* parameter. Any SSL_* parameter can
be given or the following short versions:

=over 8

=item mode - SSL_verify_mode

=item callback - SSL_verify_callback

=item scheme - SSL_verifycn_scheme

=item name - SSL_verifycn_name

=back

=item B<IO::Socket::SSL::set_client_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for client mode.

=item B<IO::Socket::SSL::set_server_defaults(%args)>

Similar to C<set_defaults>, but only sets the defaults for server mode.

=item B<IO::Socket::SSL::set_args_filter_hack(\&code|'use_defaults')>

Sometimes
 one has to use code which uses unwanted or invalid arguments for SSL,
typically disabling SSL verification or setting wrong ciphers or SSL versions.
With this hack it is possible to override these settings and restore sanity.
Example:

```
  IO::Socket::SSL::set_args_filter_hack( sub {
 my ($is_server,$args) = @_;
 if ( ! $is_server ) {
    # client settings - enable verification with default CA
    # and fallback hostname verification etc
    delete @{$args}{qw(
  SSL_verify_mode
  SSL_ca_file
  SSL_ca_path
  SSL_verifycn_scheme
  SSL_version
    )};
    # and add some fingerprints for known certs which are signed by
    # unknown CAs or are self-signed
```

```
    $args->{SSL_fingerprint} = ...
}
  });
```

With the short setting C<set_args_filter_hack('use_defaults')> it will prefer
the default settings in all cases. These default settings can be modified with
C<set_defaults>, C<set_client_defaults> and C<set_server_defaults>.

=back

The following methods are unsupported (not to
 mention futile!) and
IO::Socket::SSL will emit a large CROAK() if you are silly enough to use them:

=over 4

=item truncate

=item stat

=item ungetc

=item setbuf

=item setvbuf

=item fdopen

=item send/recv

Note that send() and recv() cannot be reliably trapped by a tied filehandle
(such as that used by IO::Socket::SSL) and so may send unencrypted data over the
socket. Object-oriented calls to these functions will fail, telling you to use
the print/printf/syswrite and read/sysread families instead.

=back

=head1 DEPRECATIONS

The following functions are deprecated and are only retained for compatibility:

=over 2

=item context_init()

use the SSL_reuse_ctx option if you want to re-use a context

=item socketToSSL() and socket_to_SSL()

use IO::Socket::SSL->start_SSL() instead

=item kill_socket()

use close() instead

=item get_peer_certificate()

use the peer_certificate() function instead.
Used to return X509_Certificate with methods subject_name and issuer_name.
Now simply
returns $self which has these methods (although deprecated).

=item issuer_name()

use peer_certificate('issuer') instead

=item subject_name()

use peer_certificate('subject') instead

=back

=head1 EXAMPLES

See the 'example' directory, the tests in 't' and also the tools in 'util'.

=head1 BUGS

If you use IO::Socket::SSL together with threads you should load it (e.g. use or require) inside the main thread before creating any other threads which use it. This way it is much faster because it will be initialized only once. Also there are reports that it might crash the other way.

Creating an IO::Socket::SSL object in one thread and closing it in another thread will not work.

IO::Socket::SSL does not work together with Storable::fd_retrieve/fd_store. See BUGS file for more information and how to work around the problem.

Non-blocking and timeouts (which are based on non-blocking) are not supported on Win32, because the underlying IO::Socket::INET does not support non-blocking on
this platform.

If you have a server and it looks like you have a memory leak you might
check the size of your session cache. Default for Net::SSLeay seems to be
20480, see the example for SSL_create_ctx_callback for how to limit it.

TLS 1.3 support regarding session reuse is incomplete.

=head1 SEE ALSO

IO::Socket::INET, IO::Socket::INET6, IO::Socket::IP, Net::SSLeay.

=head1 THANKS

Many thanks to all who added patches or reported bugs or helped IO::Socket::SSL
another way. Please keep reporting bugs and help with patches, even if they just
fix the documentation.

Special thanks to the team of Net::SSLeay for the good cooperation.

=head1 AUTHORS

Steffen Ullrich, <sullr at cpan.org> is the current maintainer.

Peter Behroozi, <behrooz at fas.harvard.edu> (Note the lack of an "i" at the end of "behrooz")

Marko Asplund, <marko.asplund at kronodoc.fi>, was the original author of IO::Socket::SSL.

Patches incorporated from various people, see file Changes.

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Found in path(s):
* /perl-IO-Socket-SSL-2.066-4.module_el8.6.0+2811+fe6c84b0.src.rpm-cosi-expand-archive-0X12HeuT/IO-Socket-SSL-2.066.tar.gz-cosi-expand-archive-pGhmkBIu/IO-Socket-SSL-2.066/lib/IO/Socket/SSL.pod
No license file was found, but licenses were detected in source scan.

--- lib/IO/Socket/SSL.pm

```
+++ lib/IO/Socket/SSL.pm
@@ -172,11 +172,10 @@ my %DEFAULT_SSL_ARGS = (
    SSL_npn_protocols => undef,    # meaning depends whether on server or client side
    SSL_alpn_protocols => undef,   # list of protocols we'll accept/send, for example ['http/1.1','spdy/3.1']

-   # https://wiki.mozilla.org/Security/Server_Side_TLS, 2019/03/05
-   # "Old backward compatibility" for best compatibility
-   # .. "Most ciphers that are not clearly broken and dangerous to use are supported"
-   # slightly reordered to prefer AES since it is cheaper when hardware accelerated
-   SSL_cipher_list => 'ECDHE-RSA-AES128-GCM-SHA256:ECDHE-ECDSA-AES128-GCM-SHA256:ECDHE-
RSA-AES256-GCM-SHA384:ECDHE-ECDSA-AES256-GCM-SHA384:ECDHE-ECDSA-CHACHA20-
POLY1305:ECDHE-RSA-CHACHA20-POLY1305:DHE-RSA-AES128-GCM-SHA256:DHE-DSS-AES128-
GCM-SHA256:kEDH+AESGCM:ECDHE-RSA-AES128-SHA256:ECDHE-ECDSA-AES128-SHA256:ECDHE-
RSA-AES128-SHA:ECDHE-ECDSA-AES128-SHA:ECDHE-RSA-AES256-SHA384:ECDHE-ECDSA-AES256-
SHA384:ECDHE-RSA-AES256-SHA:ECDHE-ECDSA-AES256-SHA:DHE-RSA-AES128-SHA256:DHE-RSA-
AES128-SHA:DHE-DSS-AES128-SHA256:DHE-RSA-AES256-SHA256:DHE-DSS-AES256-SHA:DHE-RSA-
AES256-SHA:ECDHE-RSA-DES-CBC3-SHA:ECDHE-ECDSA-DES-CBC3-SHA:EDH-RSA-DES-CBC3-
SHA:AES128-GCM-SHA256:AES256-GCM-SHA384:AES128-SHA256:AES256-SHA256:AES128-
SHA:AES256-SHA:AES:DES-CBC3-
SHA:HIGH:SEED:!aNULL:!eNULL:!EXPORT:!DES:!RC4:!MD5:!PSK:!RSAPSK:!aDH:!aECDH:!EDH-DSS-
DES-CBC3-SHA:!KRB5-DES-CBC3-SHA:!SRP',
+
    # Use system-wide default cipher list to support use of system-wide
+    # crypto policy (#1076390, #1127577, CPAN RT#97816)
+    # https://fedoraproject.org/wiki/Changes/CryptoPolicy
+    SSL_cipher_list => 'PROFILE=SYSTEM',
);

my %DEFAULT_SSL_CLIENT_ARGS = (
@@ -186,63 +185,6 @@ my %DEFAULT_SSL_CLIENT_ARGS = (
    SSL_ca_file => undef,
    SSL_ca_path => undef,

-   # older versions of F5 BIG-IP hang when getting SSL client hello >255 bytes
-
 # http://support.f5.com/kb/en-us/solutions/public/13000/000/sol13037.html
-   # http://guest:guest@rt.openssl.org/Ticket/Display.html?id=2771
-   # Ubuntu worked around this by disabling TLSv1_2 on the client side for
-   # a while. Later a padding extension was added to OpenSSL to work around
-   # broken F5 but then IronPort croaked because it did not understand this
-   # extension so it was disabled again :(
-   # Firefox, Chrome and IE11 use TLSv1_2 but use only a few ciphers, so
-   # that packet stays small enough. We try the same here.
-
-   SSL_cipher_list => join(" ",
-
- # SSLabs report for Chrome 48/OSX.
- # This also includes the fewer ciphers Firefox uses.
```

- 'ECDHE-ECDSA-AES128-GCM-SHA256',
- 'ECDHE-RSA-AES128-GCM-SHA256',
- 'DHE-RSA-AES128-GCM-SHA256',
- 'ECDHE-ECDSA-CHACHA20-POLY1305',
- 'ECDHE-RSA-CHACHA20-POLY1305',
- 'ECDHE-ECDSA-AES256-SHA',
- 'ECDHE-RSA-AES256-SHA',
- 'DHE-RSA-AES256-SHA',
- 'ECDHE-ECDSA-AES128-SHA',
- 'ECDHE-RSA-AES128-SHA',
- 'DHE-RSA-AES128-SHA',
- 'AES128-GCM-SHA256',
- 'AES256-SHA',
- 'AES128-SHA',
- 'DES-CBC3-SHA',
-
- #
 IE11/Edge has some more ciphers, notably SHA384 and DSS
- # we don't offer the *-AES128-SHA256 and *-AES256-SHA384 non-GCM
- # ciphers IE/Edge offers because they look like a large mismatch
- # between a very strong HMAC and a comparably weak (but sufficient)
- # encryption. Similar all browsers which do SHA384 can do ECDHE
- # so skip the DHE*SHA384 ciphers.
- 'ECDHE-RSA-AES256-GCM-SHA384',
- 'ECDHE-ECDSA-AES256-GCM-SHA384',
- # 'ECDHE-RSA-AES256-SHA384',
- # 'ECDHE-ECDSA-AES256-SHA384',
- # 'ECDHE-RSA-AES128-SHA256',
- # 'ECDHE-ECDSA-AES128-SHA256',
- # 'DHE-RSA-AES256-GCM-SHA384',
- # 'AES256-GCM-SHA384',
- 'AES256-SHA256',
- # 'AES128-SHA256',
- 'DHE-DSS-AES256-SHA256',
- # 'DHE-DSS-AES128-SHA256',
- 'DHE-DSS-AES256-SHA',
- 'DHE-DSS-AES128-SHA',
- 'EDH-DSS-DES-CBC3-SHA',
-
- # Just to make sure, that we don't accidentally add bad ciphers above.
- # This includes dropping RC4 which is no longer
 supported by modern
- # browsers and also excluded in the SSL libraries of Python and Ruby.
- "!EXP !MEDIUM !LOW !eNULL !aNULL !RC4 !DES !MD5 !PSK !SRP"
-)
);

set values inside _init to work with perlcc, RT#95452

```
--- lib/IO/Socket/SSL.pod
+++ lib/IO/Socket/SSL.pod
@@ -1054,12 +1054,8 @@ documentation (L<http://www.openssl.org/
for more details.

Unless you fail to contact your peer because of no shared ciphers it is
-recommended to leave this option at the default setting. The default setting
-prefers ciphers with forward secrecy, disables anonymous authentication and
-disables known insecure ciphers like MD5, DES etc. This gives a grade A result
-at the tests of SSL Labs.
-To use the less secure OpenSSL builtin default (whatever this is) set
-SSL_cipher_list to ''.
+recommended to leave this option at the default setting, which honors the
+system-wide PROFILE=SYSTEM cipher list.

In case different cipher lists are needed for different SNI hosts a hash can be
given with
 the host as key and the cipher suite as value, similar to

Found in path(s):
* /perl-IO-Socket-SSL-2.066-4.module_el8.6.0+2811+fe6c84b0.src.rpm-cosi-expand-archive-0X12HeuT/IO-Socket-SSL-2.066-use-system-default-cipher-list.patch
No license file was found, but licenses were detected in source scan.

---
abstract: 'Nearly transparent SSL encapsulation for IO::Socket::INET.'
author:
 - 'Steffen Ullrich <sullr@cpan.org>, Peter Behroozi, Marko Asplund'
build_requires:
 ExtUtils::MakeMaker: '0'
configure_requires:
 ExtUtils::MakeMaker: '0'
 Net::SSLeay: '1.46'
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 7.24, CPAN::Meta::Converter version 2.150010'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: '1.4'
name: IO-Socket-SSL
no_index:
 directory:
   - t
   - inc
requires:
 Mozilla::CA: '0'
 Net::SSLeay: '1.46'
 Scalar::Util: '0'
```

resources:
 bugtracker: https://rt.cpan.org/Dist/Display.html?Queue=IO-Socket-SSL
 homepage: https://github.com/noxxi/p5-io-socket-ssl
 license: http://dev.perl.org/licenses/
 repository: https://github.com/noxxi/p5-io-socket-ssl
version: '2.066'
x_serialization_backend: 'CPAN::Meta::YAML version 0.018'

Found in path(s):
*
 /perl-IO-Socket-SSL-2.066-4.module_el8.6.0+2811+fe6c84b0.src.rpm-cosi-expand-archive-0X12HeuT/IO-Socket-SSL-2.066.tar.gz-cosi-expand-archive-pGhmkBIu/IO-Socket-SSL-2.066/META.yml

1.365 jaxb-core 4.0.0

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The project maintains the following source code repositories:

* https://github.com/eclipse-ee4j/jaxb-ri
* https://github.com/eclipse-ee4j/jaxb-istack-commons
* https://github.com/eclipse-ee4j/jaxb-dtd-parser
* https://github.com/eclipse-ee4j/jaxb-fi
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* Source:
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* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-compat/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-compat/3.5.2

maven-core
(3.5.2)

* License: Apache-2.0
* Project: https://maven.apache.org/ref/3.5.2/maven-core/index.html
* Source: https://mvnrepository.com/artifact/org.apache.maven/maven-core/3.5.2

maven-plugin-annotations (3.5)

* License: Apache-2.0
* Project: https://maven.apache.org/plugin-tools/maven-plugin-annotations/
* Source:
  https://github.com/apache/maven-plugin-tools/tree/master/maven-plugin-annotations

maven-plugin-api (3.5.2)

* License: Apache-2.0

maven-resolver-api (1.1.1)

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maven-resolver-api (1.1.1)

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* License: Apache-2.0

maven-resolver-impl (1.1.1)

* License: Apache-2.0

maven-resolver-spi (1.1.1)

* License: Apache-2.0

maven-resolver-transport-file (1.1.1)

* License: Apache-2.0
* Project: https://maven.apache.org/resolver/maven-resolver-transport-file/
* Source:
  https://github.com/apache/maven-resolver/tree/master/maven-resolver-transport-file

maven-resolver-util (1.1.1)

* License: Apache-2.0

maven-settings
(3.5.2)

* License: Apache-2.0
* Source:
  https://mvnrepository.com/artifact/org.apache.maven/maven-settings/3.5.2

OSGi Service Platform Core Companion Code (6.0)

* License: Apache License, 2.0

plexus-archiver (3.5)

* License: Apache-2.0

* Project: https://codehaus-plexus.github.io/plexus-archiver/
* Source: https://github.com/codehaus-plexus/plexus-archiver

plexus-io (3.0.0)

* License: Apache-2.0

plexus-utils (3.1.0)

* License: Apache- 2.0 or Apache- 1.1 or BSD or Public Domain or Indiana
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relaxng-datatype (1.0)

* License: New BSD license

Sax (0.2)

* License: SAX-PD
* Project: http://www.megginson.com/downloads/SAX/
* Source: http://sourceforge.net/project/showfiles.php?group_id=29449

testng (6.14.2)

* License: Apache-2.0 AND (MIT OR GPL-1.0+)
* Project: https://testng.org/doc/index.html
* Source: https://github.com/cbeust/testng

wagon-http-lightweight (3.0.0)

* License: Pending
*
 Project: https://maven.apache.org/wagon/
* Source:
  https://mvnrepository.com/artifact/org.apache.maven.wagon/wagon-http-lightweight/3.0.0

xz for java (1.8)

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1.366 shadow 4.6-16.el8

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1.369 python-babel 2.10.3

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1.370 glibc 2.28-189.5.el8_6

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

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

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For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link a program with the library, you must provide

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However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General

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permit developers of non-free programs to use free libraries, while
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Note that it is possible for a library to be covered by the ordinary
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"Source code" for a work means the preferred form
of the work for
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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

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

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

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

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

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

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

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.

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1.373 libxml2 2.9.7-13.el8_6.1

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1.374 expat 2.2.5-8.el8_6.2

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1.375 curl 7.61.1-22.el8_6.3

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1.376 python-requests 2.28.1

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1.380 urllib3 1.26.10

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1.382 dracut 049-202.git20220511.el8_6

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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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the work with the complete corresponding
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properly with a modified version of the library, if
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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========

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  iconv (Charset Conversion Library) v2.0

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

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

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

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

The precise terms and conditions for copying, distribution and
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``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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@appendixsubsec TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION
@end iftex
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Library'' means
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interface definition files, plus the scripts used to control compilation
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and what the program that uses the Library does.

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@enumerate a
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@item
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@item
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

(For example, a function in a library to compute square roots has
a purpose that is entirely well-defined independent of the
application. Therefore, Subsection 2d requires that any
application-supplied function or table used by this function must

be optional: if the application does not supply it, the square
root function must still
compute square roots.)
@end enumerate

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derivative of it, under Section 2) in object code or executable form

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@item
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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.

@item
As an exception to the Sections above, you may also combine or link a ``work that uses the Library'' with the Library to produce a

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@enumerate a
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with the Library, with the complete machine-readable ``work that
uses the Library'', as object code and/or source code, so that the
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that the user who changes the contents of definitions files in the
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@item
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a copy of the
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@item
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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS
@end ifinfo

@page
@appendixsubsec How to Apply These Terms to Your New Libraries

 If you develop a new library, and you want it to be of the greatest
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1.385 almalinux-release 8.6-2.el8

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1.389 python-pip 22.2.2

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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 (now Zope
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1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1	2010	PSF	yes
3.2	3.1	2010	PSF	yes

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2.1.1	2.1+2.0.1	2001	PSF	yes
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1.390 pcre 10.32-3.el8_6

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1.391 openssl 1.1.1k-7.el8_6

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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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

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

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

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org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.393 jaxrs-ri 2.5.1

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/**
    * Convert the supplied value to a String.
    * <p>
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    * Users should be aware that any such support for the method comes at the expense of producing
    * non-portable code.
    * </p>
    *
    * @param value the value of type {@code T}.
    * @return a String representation of the value.
    * @throws IllegalArgumentException if the supplied object cannot be
    *                                  serialized or is {@code null}.
    */

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* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/core/UriInfo.java
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* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/OPTIONS.java
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*
* All proprietary Jersey extension APIs are annotated with the {@code @Contract} annotation.
*
* Similarly, any custom (i.e. not JAX-RS or Jersey) extension provider contract must be annotated with this
* annotation otherwise concrete service classes implementing the provider contract would not be recognized
* and treated as extension service provider by Jersey runtime.
*
*
* @author Miroslav Fuksa (miroslav.fuksa at oracle.com)
* @author Marek Potociar (marek.potociar at oracle.com)
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/FileProvider.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/core/MultivaluedMap.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/Path.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/StreamingOutputProvider.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/wadl/internal/generators/resourcedoc/xhtml/Elements.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/routing/SingleMatchResult.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/ext/Provider.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/FormMultivaluedMapProvider.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/l10n/Localizable.java
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*/
/**
    * Obtain a {@link InputStream} of the jar file.
    * <p>
    * For most platforms the format for the zip or jar follows the form of
    * the <a href="http://docs.sun.com/source/819-0913/author/jar.html#jarprotocol"jar protcol.</a></p>
    * <ul>
    *   <li><code>jar:file:///tmp/fishfingers.zip!/example.txt</code></li>
    *   <li><code>zip:http://www.example.com/fishfingers.zip!/example.txt</code></li>
    * </ul>
    * <p>
    * On versions of the WebLogic application server a proprietary format is
    * supported of the following form, which assumes a zip file located on
    * the local file system:
    * </p>
    * <ul>
    *   <li><code>zip:/tmp/fishfingers.zip!/example.txt</code></li>
    *   <li><code>zip:d:/tempfishfingers.zip!/example.txt</code></li>
    * </ul>
    * <p>
    * This method will first attempt to create a {@link InputStream} as follows:
    * <pre>
    *   new URL(jarUrlString).openStream();
```

```
     * </pre>
    * if that fails with a {@link java.net.MalformedURLException} then the method will
    * attempt to create a {@link InputStream} instance as follows:
    * <pre>
    *  return new new FileInputStream(
    *      UriComponent.decode(jarUrlString, UriComponent.Type.PATH)));
    * </pre>
    *
    * @param jarUrlString the raw scheme specific part of a URI minus the jar
    *        entry
    * @return a {@link InputStream}.
    * @throws IOException if there is an error opening the stream.
    */
```

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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/scanning/JarZipSchemeResourceFinderFactory.java
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* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/NotFoundException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/inject/ParamConverters.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/CustomProvidersFeature.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ChunkedInput.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/routing/MethodAcceptorPair.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ClientFilteringStages.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/MessagingBinders.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/MessageBodyProviderNotFoundException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/InboundJaxrsResponse.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ChunkedOutput.java
*
/jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/JerseyResourceContext.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/JerseyWebTarget.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/ExtendedLogger.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ClientBinder.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/uri/internal/UriParser.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/JSONP.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/Errors.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/container/ContainerResponseFilter.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/spi/ContentEncoder.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ContainerException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/JaxrsProviders.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/JsonWithPaddingInterceptor.java
*
/jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/client/ClientResponseFilter.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/JerseyClientBuilder.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/model/internal/RankedProvider.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/servlet/spi/AsyncContextDelegate.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/ServerErrorException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/spi/RequestExecutorProvider.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/spi/Container.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/MessageBodyProcessingException.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/container/AsyncResponse.java

* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/collection/ImmutableMultivaluedMap.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/RequestProcessingInitializationStage.java
*
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/inject/ContextInjectionResolver.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/inject/EntityParamValueFactoryProvider.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/model/internal/CommonConfig.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/filter/EncodingFeature.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/model/ResourceModel.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/MessageProperties.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/HeaderValueException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ClientRuntime.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/BasicTypesMessageProvider.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/wadl/processor/WadlModelProcessor.java
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 /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/filter/RolesAllowedDynamicFeature.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/BadRequestException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/process/internal/RequestExecutorFactory.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/core/Configuration.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/SimpleNamespaceResolver.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/SaxHelper.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/routing/MethodSelectingRouter.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/container/ContainerRequestFilter.java
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* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/container/ContainerResponseContext.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/model/AbstractResourceModelVisitor.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ClientResponse.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ContainerResponse.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/WriterInterceptorExecutor.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/routing/PushMethodHandlerRouter.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/scanning/PackageNamesScanner.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ResourceConfig.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/inject/CloseableServiceBinder.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/ClientErrorException.java

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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/model/ResourceValidator.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/InboundMessageContext.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/servlet/ServletContainer.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/core/AbstractMultivaluedMap.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ClientAsyncExecutorFactory.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ServerProperties.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/routing/SubResourceLocatorRouter.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/collection/Values.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ClientRequest.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/model/ResourceMethodValidator.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/ServiceUnavailableException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/spi/ContainerLifecycleListener.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ServerManagedAsyncExecutorFactory.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/OutboundJaxrsResponse.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/JdkVersion.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ProcessingBinder.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/model/internal/ModelErrors.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/servlet/internal/ResponseWriter.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ContainerRequest.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/routing/CombinedClientServerMediaType.java
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 /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/servlet/init/JerseyServletContainerInitializer.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/collection/StringKeyIgnoreCaseMultivaluedMap.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/BroadcasterListener.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/InterceptorExecutor.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/container/PreMatching.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/NotSupportedException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/collection/UnsafeValue.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/model/MethodHandler.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ClientConfig.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/ReaderInterceptorExecutor.java
*
 /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/NotAllowedException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/Broadcaster.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/client/ClientRequestContext.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ServerRuntime.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/ForbiddenException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/spi/Connector.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/PropertiesHelper.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/scanning/AnnotationAcceptingListener.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/ConfigHelper.java

* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/CloseableService.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/wadl/processor/OptionsMethodProcessor.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/model/internal/ImmutableCommonConfig.java
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 /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ClientProperties.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/model/ContractProvider.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/client/ClientResponseContext.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/NotAcceptableException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/AbortException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/servlet/async/AsyncContextDelegateProviderImpl.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ContainerFilteringStage.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/InternalServerErrorException.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/ResponseCallback.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/ExtendedResourceContext.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/OsgiRegistry.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/inject/CustomAnnotationImpl.java
*
 /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/servlet/WebComponent.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/localization.properties
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/inject/FactoryToService.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/ext/InterceptorContext.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/servlet/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/package-info.java
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* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/NameBinding.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/process/internal/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/RuntimeDelegateImpl.java
*
 /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/process/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/spi/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/collection/ClassTypePair.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/core/MultivaluedHashMap.java

* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/XmlHeader.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/inject/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/inject/ProviderToService.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/routing/Router.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/model/ResourceModelContext.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/inject/ProviderToFactory.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/filter/CsrfProtectionFilter.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/DefaultRespondingContext.java
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* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/core/Feature.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/model/ResourceModelListener.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/container/ResourceInfo.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/internal/GrammarUtil.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/ext/ReaderInterceptor.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/message/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/routing/MatchResultInitializerRouter.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/filter/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/container/CompletionCallback.java
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* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/internal/util/Closing.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/internal/scanning/ResourceFinderException.java
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jar/org/glassfish/jersey/server/model/internal/JavaResourceMethodDispatcherProvider.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/package-info.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/server/SubjectSecurityContext.java
* /jaxrs-ri-2-5-1-sources-1-jar/org/glassfish/jersey/client/HttpUrlConnector.java
* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/core/Form.java
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* /jaxrs-ri-2-5-1-sources-1-jar/javax/ws/rs/client/InvocationCallback.java
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* org.eclipse.jetty.orbit:org.eclipse.jdt.core

The following artifacts are EPL and ASL2.
* org.eclipse.jetty.orbit:javax.security.auth.message

The following artifacts are EPL and CDDL 1.0.
* org.eclipse.jetty.orbit:javax.mail.glassfish

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
https://glassfish.dev.java.net/nonav/public/CDDL+GPL.html

* javax.servlet:javax.servlet-api

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

Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
artifacts may be included in the distribution or downloaded when ALPN
module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
are hosted at github and both modified and original are under GPL v2 with
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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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
licensed.

org.mortbay.jasper:apache-jsp
org.apache.tomcat:tomcat-jasper
org.apache.tomcat:tomcat-juli

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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1.396 jackson-dataformat-yaml 2.4.4

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1.397 websocket-servlet 9.4.26.v20200117

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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

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
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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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
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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

Mortbay

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

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Found in path(s):

* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/package-info.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/UnixChannelOption.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/IovArray.java

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* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/META-INF/maven/io.netty/netty-transport-native-unix-common/pom.xml
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* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/PeerCredentials.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/ErrorsStaticallyReferencedJniMethods.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/SocketWritableByteChannel.java
*
/netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/Limits.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/LimitsStaticallyReferencedJniMethods.java
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* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/DomainSocketAddress.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/DatagramSocketAddress.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/Socket.java
*
/netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/UnixChannel.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/NativeInetAddress.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/DomainSocketChannelConfig.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/FileDescriptor.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/Errors.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/DomainSocketChannel.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/ServerDomainSocketChannel.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/DomainSocketReadMode.java
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* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/Buffer.java
* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/PreferredDirectByteBufAllocator.java
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* /netty-transport-native-unix-common-4-1-35-final-sources-2-jar/io/netty/channel/unix/UnixChannelUtil.java

1.399 websocket-api 9.4.26.v20200117

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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

MortBay

The following artifacts are ASL2 licensed. Based on selected classes from
following Apache Tomcat jars, all ASL2
 licensed.

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

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

Mortbay

The following artifacts are CDDL + GPLv2 with classpath exception.

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

org.eclipse.jetty.toolchain:jetty-schemas

Assorted

The UnixCrypt.java code implements the one way cryptography used by
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1.400 netty-transport-native-epoll 4.1.35.Final

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Found in path(s):
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/package-info.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/Epoll.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollServerSocketChannel.java
*
 /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollDatagramChannel.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollEventLoopGroup.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollSocketChannel.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollTcpInfo.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollChannelOption.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollEventLoop.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/NativeDatagramPacketArray.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollChannel.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.

  */
/**
   * 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.
   */
```

Found in path(s):
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollSocketChannelConfig.java
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* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/NativeStaticallyReferencedJniMethods.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/LinuxSocket.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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Found in path(s):

* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollMode.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollEventArray.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollRecvByteAllocatorHandle.java
*
/netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollStreamChannel.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-
jar/io/netty/channel/epoll/EpollRecvByteAllocatorStreamingHandle.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollChannelConfig.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/AbstractEpollServerChannel.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-
jar/io/netty/channel/epoll/EpollServerDomainSocketChannel.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollServerChannelConfig.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/TcpMd5Util.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-jar/io/netty/channel/epoll/EpollDomainSocketChannel.java
* /netty-transport-native-epoll-4-1-35-final-sources-2-
jar/io/netty/channel/epoll/EpollDomainSocketChannelConfig.java

1.401 jetty-security 9.4.26.v20200117

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

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

Oracle

The following artifacts are CDDL + GPLv2 with classpath exception.
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* 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
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module is selected.

* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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http://openjdk.java.net/legal/gplv2+ce.html

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org.ow2.asm:asm-commons
org.ow2.asm:asm

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org.apache.taglibs:taglibs-standard-spec
org.apache.taglibs:taglibs-standard-impl

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

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org.eclipse.jetty.toolchain:jetty-schemas

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Oracle OpenJDK

If ALPN is used to negotiate HTTP/2 connections, then the following
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* java.sun.security.ssl

These artifacts replace/modify OpenJDK classes. The modifications
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org.apache.tomcat:tomcat-jasper-el
org.apache.tomcat:tomcat-api
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org.apache.tomcat:tomcat-util

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1.405 engine.io-client 1.0.0

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*
* @author Steven Levithan <stevenlevithan.com> (MIT license)

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*/
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1.406 systemd 239-58.el8_6.3

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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.
^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
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normally distributed (in either source or binary form) with the major
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which the executable runs, unless that component itself accompanies
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A "library" means a collection of software functions and/or data

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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
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Historically, haproxy has been covered by GPL version 2. However, an issue
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* /oat-sa-extension-tao-dac-simple-v2-7-0-0-gf810dfb-1-zip/oat-sa-extension-tao-dac-simple-f810dfb/views/js/controller/routes.js
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* /oat-sa-extension-tao-dac-simple-v2-7-0-0-gf810dfb-1-zip/oat-sa-extension-tao-dac-simple-f810dfb/views/js/controller/admin/index.js
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{"version":3,"sources":["routes.js","admin/line!tpl","admin/index.js"],"names":["define","AdminAccessController","css","actions","adminPermissions","hb","template","Handlebars","depth0","helpers","partials","data","this","compilerInfo","merge","stack1","helper","options","buffer","escapeExpression","helperMissing","label","call","hash","type","user","__","$","_","lineTpl","feedback","autocomplete","httpErrorParser","errorMsgManagePermission","tooltipConfigManagePermission","theme","content","text","_checkManagers","container","$managers","find","checkOk","length","_preventManagerRemoval","$form","closest","$submitter","qtip","removeClass","addClass","warning","_disableAccessOnGrant","$container","$managersChecked","$cantChangeWrite","$cantChangeRead","not","$canChangeWrite","$canChangeRead","attr","_disableAccessOnWrite","$writersChecked","_deletePermission","element","$this","isEmpty","remove","_manageTabsDisplay","_checkPermission","id","$btn","$line","effect","_addPermission","$body","first","append","_installListeners","on","event","preventDefault","$focused","index","$tabs","needsTa

bs","show","hasClass","Math","max","tabs","selected","active","hide","_searchFactory","isFunction","onSelectItem","assign","isProvider","preventSubmit","start","value","focus","e","stopImmediatePropagation","error","ajax","url","serialize","global","done","success","fail","jqXHR","textStatus","errorThrown","parse","message","complete"],"mappings":"AAoBAA,OAAA,oCAAA,WACA,aACA,QACAC,uBACAC,IAAA,QACAC,SACAC,iBAAA,8BCzBAJ,OAAA,0CAAA,cAAA,SAAAK,KAAA,IACA,MAAAA,IAAAC,SAAA,SAAAC,WAAA,OAAAC,QAAA,SAAAC,MACAC,KAAA,IAAAC,QAAA,OAAAC,QAAA,OAAAC,QAAA,OAAAC,GAAAC,iBAAA,KAAAC,QAAA,iBAAAC,cAAA,QAAAC,QAAA,aA8CA,OA3CAF,SAAA,kBAAAG,QAAAC,SAAAC,QAAAC,QAAAC,Q

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+ \"\\n <input type=\\\"hidden\\\" name=\\\"users[\";\n if (helper = helpers.user) { stack1 = helper.call(depth0, {hash:{},data:data}); }\n else { helper = (depth0 && depth0.user); stack1 = typeof helper === functionType ? helper.call(depth0, {hash:{},data:data}) : helper; }\n buffer += escapeExpression(stack1)\n + \"][type]\\\" value=\\\"\";\n if (helper = helpers.type) { stack1 = helper.call(depth0, {hash:{},data:data}); }\n else { helper = (depth0 && depth0.type); stack1 = typeof helper === functionType ? helper.call(depth0, {hash:{},data:data}) : helper; }\n buffer += escapeExpression(stack1)\n + \"\\\">\\n </td>\\n <td>\\n <label class=\\\"tooltip\\\">\\n <input type=\\\"checkbox\\\" class=\\\"privilege-GRANT\\\" name=\\\"users[\";\n if (helper = helpers.user) { stack1 = helper.call(depth0, {hash:{},data:data}); }\n else { helper = (depth0 && depth0.user); stack1 = typeof helper === functionType ? helper.call(depth0, {hash:{},data:data}) : helper; }\n buffer += escapeExpression(stack1)\n + \"][GRANT]\\\" value=\\\"1\\\">\\n <span class=\\\"icon-checkbox\\\">\\n </label>\\n </td>\\n <td>\\n <label class=\\\"tooltip\\\">\\n <input type=\\\"checkbox\\\" class=\\\"privilege-WRITE\\\" name=\\\"users[\";\n if (helper = helpers.user) { stack1 = helper.call(depth0, {hash:{},data:data}); }\n else { helper = (depth0 && depth0.user); stack1 = typeof helper === functionType ? helper.call(depth0, {hash:{},data:data}) : helper; }\n buffer += escapeExpression(stack1)\n + \"][WRITE]\\\" value=\\\"1\\\" checked>\\n <span class=\\\"icon-checkbox\\\">\\n </label>\\n </td>\\n <td>\\n <label class=\\\"tooltip\\\">\\n <input type=\\\"checkbox\\\" class=\\\"privilege-READ\\\" name=\\\"users[\";\n if (helper = helpers.user) { stack1 = helper.call(depth0, {hash:{},data:data}); }\n else { helper = (depth0 && depth0.user); stack1 = typeof helper === functionType ? helper.call(depth0, {hash:{},data:data}) : helper; }\n buffer += escapeExpression(stack1)\n + \"][READ]\\\" value=\\\"1\\\" checked>\\n <span class=\\\"icon-checkbox\\\">\\n </label>\\n </td>\\n <td>\\n <button type=\\\"button\\\" class=\\\"small delete_permission tooltip btn-warning\\\" data-acl-user=\\\"\";\n if (helper = helpers.user) { stack1 = helper.call(depth0, {hash:{},data:data}); }\n else { helper = (depth0 && depth0.user); stack1 = typeof helper === functionType ? helper.call(depth0, {hash:{},data:data}) : helper; }\n buffer += escapeExpression(stack1)\n + \"\\\" data-acl-type=\\\"\";\n if (helper = helpers.type) { stack1 = helper.call(depth0, {hash:{},data:data}); }\n else { helper = (depth0 && depth0.type); stack1 = typeof helper === functionType ? helper.call(depth0, {hash:{},data:data}) : helper; }\n buffer += escapeExpression(stack1)\n + \"\\\" data-acl-label=\\\"\";\n if (helper = helpers.label) { stack1 = helper.call(depth0, {hash:{},data:data}); }\n else { helper = (depth0 && depth0.label); stack1 = typeof helper === functionType ? helper.call(depth0, {hash:{},data:data}) : helper; }\n buffer += escapeExpression(stack1)\n + \"\\\" >\\n <span class=\\\"icon-bin\\\">\"\n + escapeExpression((helper = helpers.__ || (depth0 && depth0.__),options={hash:{},data:data},helper ? helper.call(depth0, \"Remove\", options) : helperMissing.call(depth0, \"__\", \"Remove\", options)))\n + \"\\n </button>\\n </td>\\n</tr>\\n\";\n return buffer;\n });\n});\n\n","/**\n * This program is free software; you can redistribute it and/or\n * modify it under the terms of the GNU General Public License\n * as published by the Free Software Foundation; under version 2\n * of the License (non-upgradable).\n *\n * This program is distributed in the hope that it will be useful,\n * but WITHOUT ANY WARRANTY; without even the implied warranty of\n * MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the\n * GNU General Public License for more details.\n *\n * You should have received a copy of the GNU General Public License\n * along with this program; if not, write to the Free Software\n * Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.\n *\n * Copyright (c) 2015 (original work) Open Assessment Technologies SA (under the project TAO-PRODUCT);\n */\ndefine('taoDacSimple/controller/admin/index',[\n 'jquery',\n 'lodash',\n 'i18n',\n 'tpl!taoDacSimple/controller/admin/line',\n 'helpers',\n 'ui/feedback',\n 'ui/autocomplete',\n 'util/httpErrorParser',\n 'ui/tooltip',\n 'jqueryui'\n], function ($, _, __, lineTpl, helpers, feedback, autocomplete, httpErrorParser) {\n 'use strict';\n\n /**\n * The amount of displayed lines that fires the tabs mode\n * @type {Number}\n */\n var linesThreshold = 10;\n\n /**\n * The warning message shown when all managers have been removed\n * @type {String}\n */\n var errorMsgManagePermission = __('You must have one role or user that have the manage permission on this element.');\n\n /**\n * Config object needed by the tooltip used to display warning if all managers have been removed\n * @type {Object}\n

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*/\n    var tooltipConfigManagePermission = {\n        theme : 'warning',\n        content: {\n            text: __(errorMsgManagePermission)\n        }\n    };\n\n    /**\n     * Checks the managers, we need at least one activated manager.\n     * @param {jQuery|Element|String} container\n     * @returns {Boolean} Returns `true` if there is at least one manager in the list\n     * @private\n     */\n    var _checkManagers = function (container) {\n        var $managers = $(container).find('.privilege-GRANT:checked');\n        var checkOk = true;\n\n        if (!$managers.length) {\n            checkOk = false;\n        }\n        return checkOk;\n    };\n\n    /**\n     * Avoids to remove all managers\n     * @param {jQuery|Element|String} container\n     * @private\n     */\n    var _preventManagerRemoval = function(container){\n        var $form = $(container).closest('form');\n        var $submitter = $(':submit', $form);\n\n        $submitter.qtip(tooltipConfigManagePermission);\n        if (!_checkManagers($form)) {\n            $submitter.addClass('disabled');\n            $submitter.qtip('enable');\n            feedback().warning(errorMsgManagePermission);\n        } else {\n            $submitter.removeClass('disabled');\n            $submitter.qtip('disable');\n        }\n    };\n\n    /**\n     * Allow to enable / disable the access checkbox based on the state of the grant privilege\n     * @param {jQuery|Element|String} container\n     * @private\n     */\n    var _disableAccessOnGrant = function (container) {\n        var $container = $(container);\n\n        var $managersChecked = $container.find('.privilege-GRANT:checked').closest('tr');\n        var $cantChangeWrite = $managersChecked.find('.privilege-WRITE');\n        var $cantChangeRead = $managersChecked.find('.privilege-READ');\n\n        var $managers = $container.find('.privilege-GRANT').not(':checked').closest('tr');\n        var $canChangeWrite = $managers.find('.privilege-WRITE');\n        var $canChangeRead = $managers.find('.privilege-READ');\n\n        $canChangeWrite.removeClass('disabled');\n        $canChangeRead.removeClass('disabled');\n\n        $cantChangeWrite.addClass('disabled').attr('checked', true);\n        $cantChangeRead.addClass('disabled').attr('checked', true);\n\n        _preventManagerRemoval($container);\n        _disableAccessOnWrite($container);\n    };\n\n    /**\n     * Allow to enable / disable the access checkbox based on the state of the write privilege\n     * @param {jQuery|Element|String} container\n     * @private\n     */\n    var _disableAccessOnWrite = function (container) {\n        var $container = $(container);\n\n        var $writersChecked = $container.find('.privilege-WRITE:checked').closest('tr');\n        var $cantChangeRead = $writersChecked.find('.privilege-READ');\n\n        var $writers = $container.find('.privilege-WRITE').not(':checked').closest('tr');\n        var $canChangeRead = $writers.find('.privilege-READ');\n\n        $canChangeRead.removeClass('disabled');\n\n        $cantChangeRead.addClass('disabled').attr('checked', true);\n    };\n\n    /**\n     * Delete a permission row for a user/role\n     * @param  {DOM Element} element DOM element that triggered the function\n     * @private\n     */\n    var _deletePermission = function (element) {\n        // 1. Get the user / role\n        var $this = $(element);\n        var $container = $this.closest('table');\n        var type = $this.data('acl-type');\n        var user = $this.data('acl-user');\n        var label = $this.data('acl-label');\n\n        // 2. Remove it from the list\n        if (!_.isEmpty(type)\n            && !_.isEmpty(user) && !_.isEmpty(label)) {\n            $this.closest('tr').remove();\n        }\n\n        _preventManagerRemoval($container);\n        _manageTabsDisplay();\n    };\n\n    /**\n     * Checks if a permission has already been added to the list.\n     * Highlight the list if the permission is already in the list.\n     * @param {jQuery|Element|String} container\n     * @param {String} type role/user regarding what it will be added.\n     * @param {String} id The identifier of the resource.\n     * @returns {boolean} Returns true if the permission is already in the list\n     * @private\n     */\n    var _checkPermission = function (container, type, id) {\n        var $btn = $(container).find('button[data-acl-user=\"' + id + '\"]'),\n            $line = $btn.closest('tr');\n\n        if ($line.length) {\n            $line.effect('highlight', {}, 1500);\n            return true;\n        }\n\n        return false;\n    };\n\n    /**\n     * Add a new lines into the permissions\n     table regarding what is selected into the add-* select\n     * @param {jQuery|Element|String} container\n     * @param {String} type role/user regarding what it will be added.\n     * @param {String} id The identifier of the resource.\n     * @param {String} label The label of the resource.\n     * @private\n     */\n    var _addPermission = function (container, type, id, label) {\n        var $container = $(container),\n            $body = $container.find('tbody').first();\n\n        // only add the permission if it's not already present in the list\n        if
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(!_checkPermission($container, type, id)) {\n $body.append(lineTpl({\n type: type,\n user: id,\n label: label\n }));\n _disableAccessOnGrant($container);\n _manageTabsDisplay();\n }\n };\n\n /**\n * Ensures that if you give the manage (GRANT) permission, access (WRITE and READ) permissions are given too\n * Listens all clicks on delete buttons to call the _deletePermission function\n * @param {jQuery|Element|String} container The container on which apply the listeners\n * @private\n */\n var _installListeners = function(container) {\n var $container = $(container);\n $container.on('click', '.privilege-GRANT:not(.disabled) ', function () {\n _disableAccessOnGrant($container);\n }).on('click', '.privilege-WRITE:not(.disabled) ', function () {\n _disableAccessOnWrite($container);\n }).on('click', '.delete_permission:not(.disabled)', function (event) {\n event.preventDefault();\n _deletePermission(this);\n });\n };\n\n /**\n * Manages the display of tabs.\n * If the total amount of lines per tables is too big, display the tabs. Otherwise, hide them.\n * @private\n */\n var _manageTabsDisplay = function() {\n var $tabs = $('.permission-tabs');\n var needsTabs = $tabs.find('.privilege-GRANT').length > linesThreshold;\n var $focused, index;\n\n if (needsTabs) {\n $tabs.find('ul').show();\n if (!$tabs.hasClass('ui-tabs')) {\n // get the current focused panel\n $focused = $tabs.find(':focus').closest('.permission-tabs-panel');\n index = Math.max(0, $focused.index() - 1);\n\n // install the tabs, but keep the current panel focused\n $tabs.tabs({\n // use two options to be compatible with both older and current version of jQueryUI\n selected: index,\n active: index\n });\n }\n $('.msg-edit-area label span').hide();\n } else {\n if ($tabs.hasClass('ui-tabs')) {\n $tabs.find('.ui-tabs-hide').removeClass('ui-tabs-hide');\n $tabs.tabs('destroy');\n }\n $tabs.find('ul').hide();\n $('.msg-edit-area label span').show();\n }\n };\n\n /**\n * Installs a search purpose autocompleter onto an element.\n * @param {jQuery|Element|String} element The element on which install the autocompleter\n * @param {Object} options A list of options to set\n * @returns {Autocompleter} Returns the instance of the autocompleter component\n */\n var _searchFactory = function (element, options) {\n if (_.isFunction(options)) {\n options = {\n onSelectItem: options\n };\n }\n\n options = _.assign({\n isProvider: true,\n preventSubmit: true\n }, options || {});\n\n return autocomplete(element, options);\n };\n\n var mainCtrl = {\n 'start': function () {\n\n var $container = $('.permission-container');\n var $form = $('form', $container);\n var $submitter = $(':submit', $form);\n\n _disableAccessOnGrant('#permissions-table-users');\n _disableAccessOnGrant('#permissions-table-roles');\n\n // install autocomplete for user add\n _searchFactory('#add-user', function (event, value, label) {\n $('#add-user').focus();\n _addPermission('#permissions-table-users', 'user', value, label);\n });\n\n // install autocomplete for role add\n _searchFactory('#add-role', function (event, value, label) {\n $('#add-role').focus();\n _addPermission('#permissions-table-roles', 'role', value, label);\n });\n\n // ensure that if you give the manage (GRANT) permission, access (WRITE and READ) permissions are given too\n _installListeners('#permissions-table-users');\n _installListeners('#permissions-table-roles');\n\n _manageTabsDisplay();\n\n $form.on('submit', function (e) {\n e.preventDefault();\n e.stopImmediatePropagation();\n });\n $submitter.on('click', function (e) {\n e.preventDefault();\n\n if ($submitter.hasClass('disabled')) {\n return;\n }\n\n if (!_checkManagers('form')) {\n feedback().error(errorMsgManagePermission);\n return;\n }\n\n $submitter.addClass('disabled');\n\n $.ajax({\n url : $form.attr('action'),\n type : 'POST',\n data : $form.serialize(),\n global : false\n }).done(function () {\n feedback().success(__('Permissions saved'));\n }).fail(function(jqXHR, textStatus, errorThrown) {\n var error = httpErrorParser.parse(jqXHR, textStatus, errorThrown);\n feedback().error(error.message);\n })\n .complete(function () {\n $submitter.removeClass('disabled');\n });\n });\n }\n };\n\n return mainCtrl;\n});\n\n"]}

Found in path(s):
* /oat-sa-extension-tao-dac-simple-v2-7-0-0-gf810dfb-1-zip/oat-sa-extension-tao-dac-simple-f810dfb/views/js/controllers.min.js.map

1.415 rich 3.3.1

1.415.1 Available under license :

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1.416 xorg-randr 1.5.1-2

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1.417 zopfli 0.2.1

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1.418 libiconv 2.28

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[This is the first released version of the library GPL. It is
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Preamble

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

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

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve

this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

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

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

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

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent

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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
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d) If a facility in the modified Library refers to a function or a
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is invoked, then you must make a good faith effort to ensure that,
in the event an application does not supply such function or
table, the facility still operates, and performs whatever part of
its purpose remains meaningful.

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

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

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

In addition,
mere aggregation of another work not based on the Library 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
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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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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) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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

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

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

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END OF TERMS AND CONDITIONS

Appendix: How to Apply These Terms to Your New Libraries

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

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library `Frob' (a library for tweaking knobs) written by James Random Hacker.

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

That's all there is to it!

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of

software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

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

TERMS AND CONDITIONS

0. Definitions.

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

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the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. 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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released under this License and any conditions added under section
7. This requirement modifies the requirement in section
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1.421 tenacity 8.0.1

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1.422 idna 14.0.0

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1.423 python-setuptools 58.1.0

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1.424 python-certifi 2021.10.08

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file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
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@(#) $RCSfile: certdata.txt,v $
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1.425 importlib-metadata 4.12.0

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1.426 greenlet 1.1.3

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1.427 lvm2 2.03.10-3.ph3

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1.428 html5lib 1.0b10

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1.429 python-setuptools 65.3.0

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1.430 importlib-resources 5.9.0

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1.431 argparse 1.4.0

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History

Before (and including) argparse 1.1, the argparse package was licensed under
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After argparse 1.1, all project files from the argparse project were deleted
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The project repository then had a clean start with some files taken from
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A. HISTORY OF THE SOFTWARE
==========================

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

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

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

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

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes

2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
2.7	2.6	2010	PSF	yes

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1.432 pyyaml 6.0

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1.435 libsigsegv 2.11-5.el8

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1.436 perl-mime-base64 3.15-396.el8

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=head1 NAME

MIME::QuotedPrint - Encoding and decoding of quoted-printable strings

=head1 SYNOPSIS

use MIME::QuotedPrint;

$encoded = encode_qp($decoded);
$decoded = decode_qp($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the quoted-printable encoding specified in RFC 2045 - I<MIME (Multipurpose Internet Mail Extensions)>. The quoted-printable encoding is intended to represent data that largely consists of bytes that correspond to printable characters in the ASCII character set. Each non-printable character (as defined by English Americans) is represented by a triplet consisting of the character "=" followed by two hexadecimal digits.

The following functions are provided:

=over 4

=item encode_qp($str)

=item encode_qp($str, $eol)

=item encode_qp($str, $eol, $binmode)

This function returns an encoded version of the string ($str) given as argument.

The
second argument ($eol) is the line-ending sequence to use. It is optional and defaults to "\n". Every occurrence of "\n" is replaced with this string, and it is also used for additional "soft line breaks" to ensure that no line end up longer than 76 characters. Pass it as "\015\012" to produce data suitable for external consumption. The string "\r\n" produces the same result on many platforms, but not all.

The third argument ($binmode) will select binary mode if passed as a TRUE value. In binary mode "\n" will be encoded in the same way as any other non-printable character. This ensures that a decoder will end up with exactly the same string whatever line ending sequence it uses. In general it is preferable to use the base64 encoding for binary data; see L<MIME::Base64>.

An $eol of "" (the empty string) is special. In this case, no "soft line breaks" are introduced and binary mode is effectively enabled so that any "\n" in the original data is encoded as well.

=item
decode_qp($str)

This function returns the plain text version of the string given as argument. The lines of the result are "\n" terminated, even if the $str argument contains "\r\n" terminated lines.

=back

If you prefer not to import these routines into your namespace, you can
call them as:

 use MIME::QuotedPrint ();
 $encoded = MIME::QuotedPrint::encode($decoded);
 $decoded = MIME::QuotedPrint::decode($encoded);

Perl v5.8 and better allow extended Unicode characters in strings.
Such strings cannot be encoded directly, as the quoted-printable
encoding is only defined for single-byte characters. The solution is
to use the Encode module to select the byte encoding you want. For
example:

  use MIME::QuotedPrint qw(encode_qp);
  use Encode qw(encode);

  $encoded = encode_qp(encode("UTF-8", "\x{FFFF}\n"));
  print $encoded;

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=head1 SEE ALSO

L<MIME::Base64>

=cut

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=head1 NAME

MIME::Base64 - Encoding and decoding of base64 strings

=head1 SYNOPSIS

```
use MIME::Base64;

$encoded = encode_base64('Aladdin:open sesame');
$decoded = decode_base64($encoded);

=head1 DESCRIPTION

This module provides functions to encode and decode strings into and from the
base64 encoding specified in RFC 2045 - I<MIME (Multipurpose Internet
Mail Extensions)>. The base64 encoding is designed to represent
arbitrary sequences of octets in a form that need not be humanly
readable. A 65-character subset ([A-Za-z0-9+/=]) of US-ASCII is used,
enabling 6 bits to be represented per printable character.

The following primary functions are provided:

=over 4

=item encode_base64( $bytes )

=item encode_base64( $bytes, $eol );

Encode data by calling the encode_base64() function.  The first
argument is the byte string to encode.  The second argument is the
line-ending sequence to use.  It is optional and defaults
 to "\n".  The
returned encoded string is broken into lines of no more than 76
characters each and it will end with $eol unless it is empty.  Pass an
empty string as second argument if you do not want the encoded string
to be broken into lines.

The function will croak with "Wide character in subroutine entry" if $bytes
contains characters with code above 255.  The base64 encoding is only defined
for single-byte characters.  Use the Encode module to select the byte encoding
you want.

=item decode_base64( $str )

Decode a base64 string by calling the decode_base64() function.  This
function takes a single argument which is the string to decode and
returns the decoded data.

Any character not part of the 65-character base64 subset is
silently ignored.  Characters occurring after a '=' padding character
are never decoded.

=back
```

If you prefer not to import these routines into your namespace, you can
call them as:

```
  use MIME::Base64 ();
  $encoded = MIME::Base64::encode($decoded);
   $decoded = MIME::Base64::decode($encoded);
```

Additional functions not exported by default:

=over 4

=item encode_base64url($bytes)

=item decode_base64url($str)

Encode and decode according to the base64 scheme for "URL applications" [1].
This is a variant of the base64 encoding which does not use padding, does not
break the string into multiple lines and use the characters "-" and "_" instead
of "+" and "/" to avoid using reserved URL characters.

=item encoded_base64_length($bytes)

=item encoded_base64_length($bytes, $eol)

Returns the length that the encoded string would have without actually
encoding it. This will return the same value as C<< length(encode_base64($bytes)) >>,
but should be more efficient.

=item decoded_base64_length($str)

Returns the length that the decoded string would have without actually
decoding it. This will return the same value as C<< length(decode_base64($str)) >>,
but should be more efficient.

=back

=head1 EXAMPLES

If you want to
 encode a large file, you should encode it in chunks
that are a multiple of 57 bytes. This ensures that the base64 lines
line up and that you do not end up with padding in the middle. 57
bytes of data fills one complete base64 line (76 == 57*4/3):

```
  use MIME::Base64 qw(encode_base64);

  open(FILE, "/var/log/wtmp") or die "$!";
  while (read(FILE, $buf, 60*57)) {
```

```
    print encode_base64($buf);
}
```

or if you know you have enough memory

```
use MIME::Base64 qw(encode_base64);
local($/) = undef;  # slurp
print encode_base64(<STDIN>);
```

The same approach as a command line:

```
perl -MMIME::Base64 -0777 -ne 'print encode_base64($_)' <file
```

Decoding does not need slurp mode if every line contains a multiple of four base64 chars:

```
perl -MMIME::Base64 -ne 'print decode_base64($_)' <file
```

Perl v5.8 and better allow extended Unicode characters in strings. Such strings cannot be encoded directly, as the base64 encoding is only defined for single-byte characters. The solution is to use the Encode module to select the byte encoding you want. For example:

```
use MIME::Base64 qw(encode_base64);
use Encode qw(encode);

$encoded = encode_base64(encode("UTF-8", "\x{FFFF}\n"));
print $encoded;
```

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Distantly based on LWP::Base64 written by Martijn Koster <m.koster@nexor.co.uk> and Joerg Reichelt <j.reichelt@nexor.co.uk> and code posted to comp.lang.perl <3pd2lp$6gf@wsinti07.win.tue.nl> by Hans Mulder <hansm@wsinti07.win.tue.nl>

The XS implementation uses code from metamail. Copyright 1991 Bell Communications Research, Inc. (Bellcore)

=head1 SEE ALSO

L<MIME::QuotedPrint>

[1] L<http://en.wikipedia.org/wiki/Base64#URL_applications>

=cut

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* /perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-0eqZ8FH8/MIME-Base64-3.15.tar.gz-cosi-expand-archive-Y9WxESAM/MIME-Base64-3.15/Base64.pm
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This package contains a base64 encoder/decoder and a quoted-printable
encoder/decoder. These encoding methods are specified in RFC 2045 -
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The base64 encoding is designed to represent arbitrary sequences of
octets in a form that need not be humanly readable. A 65-character
subset ([A-Za-z0-9+/=]) of US-ASCII is used, enabling 6 bits to be
represented per printable character.

The quoted-printable encoding is intended to represent data that
largely consists of bytes that correspond to printable characters in
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digits.

In order to install and use this package you will need Perl version
5.6 or better. Installation as usual:

  perl Makefile.PL
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---
abstract: 'The RFC 2045 encodings; base64 and quoted-printable'
author:
 - 'Gisle Aas <gisle@activestate.com>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.66, CPAN::Meta::Converter version 2.133380'
license: perl
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: MIME-Base64
no_index:
 directory:
   - t
   - inc
requires:
 XSLoader: 0
 perl: 5.004
resources:
 repository: https://github.com/gisle/mime-base64
version: 3.15

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* /perl-MIME-Base64-3.15-396.el8.src.rpm-cosi-expand-archive-0eqZ8FH8/MIME-Base64-3.15.tar.gz-cosi-expand-archive-Y9WxESAM/MIME-Base64-3.15/META.yml

1.437 libunistring 0.9.9-3.el8

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

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

free library to free
software only, so we use the Lesser General Public License.

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

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

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

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

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

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

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

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

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

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

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any

application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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

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

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

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.

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains
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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.

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"This License" refers to version 3 of the GNU General Public License.

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

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To
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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.

1. 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
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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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additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

d) If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

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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

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d) Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge.
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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
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and what the program that uses the Library does.

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

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

These requirements apply to the modified work as a whole. If
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2 above provided that you accompany
it with the complete corresponding machine-readable source code, which
must be distributed under the terms of Sections 1 and 2 above on a
medium customarily used for software interchange.

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

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

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

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

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

Otherwise,
if the work is a derivative of the Library, you may
distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6,

whether or not they are linked directly with the Library itself.

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

@item
Use a suitable shared library mechanism for linking with the Library. A
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library already present on the user's computer system, rather than
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and (2) will operate
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components (compiler, kernel, and so on) of the operating system on
which the executable runs, unless that component itself accompanies the
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@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

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

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

To do so, attach the following notices to the program. It is safest
to attach them to the start of each source file to most effectively

convey the exclusion of warranty; and each file should have at least
the ``copyright'' line and a pointer to where the full notice is found.

@smallexample
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 and a brief idea of what it does.}
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@end smallexample

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when it starts in an interactive mode:

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Gnomovision version
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
@end smallexample

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suits your program.

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necessary. Here is a sample; alter the names:

@example
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@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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^L
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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.
^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
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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.
^L
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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file to most
effectively convey the exclusion of warranty; and each file should
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<one line to give the library's name and a brief idea of what it
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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!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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distribution or on the World Wide Web at
http://www.gnu.org/licenses/old-licenses/lgpl-2.1.html. You can also
obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

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. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

EFFECTIVE
OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected
in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

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

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:15 PM
> To: cracklib-devel@li...
> Subject: [Cracklib-devel] cracklib license
>=20
> looks like 2.8.11 is out and marked as "GPL-2" ... releasing
> libraries under
> GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
> -mike

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

Attachments: Message as HTML

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

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

unlike the old license, GPL-2 prevents people from using cracklib unless th=
eir=20
applications are also GPL-2 which imo is just wrong. it isnt the place of =
a=20
library to dictact to application writes what license they should be using.=
=20
thus LGPL-2.1 enters to fill this void.
=2Dmike

Re: [Cracklib-devel] cracklib license
From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:46
Seems like the ideal thing here would be for you and the other distro
maintainers to get together with Alec in a conversation and come to a
decision as to what licensing scheme y'all want. I haven't really done
much other than cleaning up the packaging and patches and a small bit of
additional code, so whatever licensing y'all come up with is fine by me.

-- Nathan
=20

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

> -----Original Message-----
> From: cracklib-devel-bounces@li...
> [mailto:cracklib-devel-bounces@li...] On Behalf Of
> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
>

Cc: cracklib-devel@li...; Alec Muffett

> Subject: Re: [Cracklib-devel] cracklib license

>=20

> On Monday 01 October 2007, Neulinger, Nathan wrote:

> > I understand that, and you're welcome to bring it up with Alec

> directly

> > and see if he wants to relicense his code as LGPL... but at this

> point,

> > it was enough to just get it consistent and documented as to what

> it was

> > released under. This wasn't actually a license change, just a

> > clarification of the licensing that was already in place.

>=20

> the original license (before moving to sourceforge -- aka, 2.7) was

> not

> GPL-2 ... it was a modified artistic license ... i didnt notice the

> license

> change until it was mentioned in the latest notes.

>=20

> unlike the old license, GPL-2 prevents people from using cracklib

> unless their

> applications are also GPL-2 which imo is just wrong. it isnt

the

> place of a

> library to dictact to application writes what license they should

> be using.

> thus LGPL-2.1 enters to fill this void.

> -mike

Re: [Cracklib-devel] cracklib license

From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57

> Seems like the ideal thing here would be for you and the other distro

> maintainers to get together with Alec in a conversation and come to a

> decision as to what licensing scheme y'all want. I haven't really done

> much other than cleaning up the packaging and patches and a small

> bit of

> additional code, so whatever licensing y'all come up with is fine

> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

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

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

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

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

Cheers,

Nalin

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

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

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

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

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

From alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)

by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct
2007 09:59:50 -0700 (PDT)
Received: from [82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status:
RO
Content-Length: 585
Lines: 21

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

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

Happy now? :-)

-a

EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16

Attachments: Message as HTML
looks like 2.8.11 is out and marked as "GPL-2" ... releasing libraries unde=
r=20
GPL-2 is not desirable at all ... this is why the LGPL-2.1 exists
=2Dmike

> Re: [Cracklib-devel] cracklib license
> From: Neulinger, Nathan <nneul@um...> - 2007-10-02 01:18
> I understand that, and you're welcome to bring it up with Alec directly
> and see if he wants to relicense his code as LGPL... but at this point,
> it was enough to just get it consistent and documented as to what it was
> released under. This wasn't actually a license change, just a
> clarification of the licensing that was already in place.=20
>
> -- Nathan
> =20
> ---
> Nathan Neulinger EMail: nneul@um...
> University of Missouri - Rolla Phone: (573) 341-6679
> UMR Information Technology Fax: (573) 341-4216
>
> > -----Original Message-----
> > From: cracklib-devel-bounces@li...
> > [mailto:cracklib-devel-bounces@li...] On Behalf Of
> > Mike Frysinger
> > Sent: Monday, October 01, 2007 8:15 PM
> > To: cracklib-devel@li...
> > Subject: [Cracklib-devel] cracklib license
> >=20

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> 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
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wrote:
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=20
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=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.

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

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> From: cracklib-devel-bounces@li...
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> Mike Frysinger
> Sent: Monday, October 01, 2007 8:33 PM
> To: Neulinger, Nathan
> Cc: cracklib-devel@li...; Alec Muffett
> Subject: Re: [Cracklib-devel] cracklib license
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to dictact to application writes what license they should
> be using.
> thus LGPL-2.1 enters to fill this void.
> -mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
> Seems like the ideal thing here would be for you and the other distro
> maintainers to get together with Alec in a conversation and come to a
> decision as to what licensing scheme y'all want. I haven't really done
> much other than cleaning up the packaging and patches and a small
> bit of
> additional code, so whatever licensing y'all come up with is fine
> by me.

I am sympathetic. Guys, what do you reckon?

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

-a

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

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

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

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
On Tue, Oct 02, 2007 at 09:57:31AM +0100, Alec Muffett wrote:
> > Seems like the ideal thing here would be for you and the other distro
> > maintainers to get together with Alec in a conversation and come to a
> > decision as to what licensing scheme y'all want. I haven't really done
> > much other than cleaning up the packaging and patches and a small
> > bit of
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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
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> In any case, I thank you both for working on sorting this out.

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

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

>> In any case, I thank you both for working on sorting this out.
>
> looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> the change now ?

yes. go for it. thanks++

-a

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

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

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

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

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

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

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

From

alecm@crypticide.com Mon Oct 1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft SMTPSVC(6.0.3790.3959);
Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunkymail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
by spunkymail-mx8.g.dreamhost.com (Postfix) with ESMTP id 2C7734D311
for <nneul@neulinger.org>; Mon, 1 Oct 2007 09:59:50 -0700 (PDT)
Received: from
[82.68.43.14] (helo=[192.168.1.3])
by rutherford.zen.co.uk with esmtp (Exim 4.50)
id 1IcOcX-0004Qt-6L
for nneul@neulinger.org; Mon, 01 Oct 2007 16:59:49 +0000
Mime-Version: 1.0 (Apple Message framework v752.2)
In-Reply-To: <1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
References: <1190922867.3457.147.camel@localhost.localdomain>
<EC90713277D2BE41B7110CCD74E235CEF44F38@UMR-CMAIL1.umr.edu>
<1b1b3fd80710010908k11dac0afp1f2dd471059ff9a4@mail.gmail.com>
Content-Type: text/plain; charset=US-ASCII; delsp=yes; format=flowed
Message-Id: <117A1264-F6DC-4E25-B0DD-56FBFEBE6E9F@crypticide.com>
Content-Transfer-Encoding: 7bit
From: Alec Muffett <alecm@crypticide.com>
Subject: Re: cracklib license
Date: Mon, 1 Oct 2007 17:59:46 +0100
To: Nathan Neulinger <nneul@neulinger.org>
X-Mailer: Apple Mail (2.752.2)
X-Originating-Rutherford-IP: [82.68.43.14]
Return-Path: alecm@crypticide.com
X-OriginalArrivalTime: 01 Oct 2007 17:26:03.0008 (UTC) FILETIME=[2420C000:01C80450]
Status: RO
Content-Length:
585
Lines: 21

>
> ---------- Forwarded message ----------
> From: Neulinger, Nathan <nneul@umr.edu>
> Date: Sep 27, 2007 2:58 PM
> Subject: RE: cracklib license
> To: alecm@crypto.dircon.co.uk

>
> Any chance you could write me a self-contained email stating clearly
> that the license is being changed to GPL, so I could include that
> email
> in the repository and clean up the repository/tarballs? I have all the
> original discussion, but something succinct and self contained
> would be
> ideal.

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

Happy now? :-)

-a

1.445 libksba 1.3.5-7.el8

1.445.1 Available under license :

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Version 3, 29 June 2007

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Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains
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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 GPL assures that patents cannot be used to render the program non-free.

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interfaces specified for a particular programming language, one that is widely used among developers working in that language.

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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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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 unpacking, reading or copying.

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1.446 perl-term-cap 1.17-395.el8

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1.447 perl-text-tabs-wrap 2013.0523-395.el8

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---
abstract: 'Expand tabs and do simple line wrapping'
author:
 - 'David Muir Sharnoff <muir@idiom.org>'
build_requires:
 ExtUtils::MakeMaker: 0
configure_requires:
 ExtUtils::MakeMaker: 0
dynamic_config: 1
generated_by: 'ExtUtils::MakeMaker version 6.62, CPAN::Meta::Converter version 2.112150'
license: unknown
meta-spec:
 url: http://module-build.sourceforge.net/META-spec-v1.4.html
 version: 1.4
name: Text-Tabs+Wrap
no_index:
 directory:
   - t
   - inc
requires: {}
resources:
 repository: http://github.com/muir/Text-Tabs-Wrap

version: 2013.0523

Found in path(s):
* /perl-Text-Tabs+Wrap-2013.0523-395.el8.src.rpm-cosi-expand-archive-WoUTJPer/Text-Tabs+Wrap-2013.0523.tar.gz-cosi-expand-archive-ZHll6Ysd/Text-Tabs+Wrap-2013.0523/META.yml
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Found in path(s):
* /perl-Text-Tabs+Wrap-2013.0523-395.el8.src.rpm-cosi-expand-archive-WoUTJPer/perl-Text-Tabs+Wrap.spec

1.448 findutils 4.6.0-20.el8

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Here a list of files which are distributed with groff but which aren't part of it (this is, they either have a non-GPL license, or the copyright hasn't been assigned to the FSF).

Source Files

. The file `src/libs/snprintf/snprintf.c', written by Mark Martinec <mark.martinec@ijs.si>.

Please look into snprintf.c for the copyright message.

The complete snprintf package together with documentation is available from

http://www.ijs.si/software/snprintf/ .

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

The original package can be found at http://ftp.cs.wisc.edu/pub/misc/grn.tar.Z .

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

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

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

src/include/DviChar.h
src/include/XFontName.h

src/libs/libxutil/DviChar.c
src/libs/libxutil/XFontName.c

Macro Packages

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

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

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

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

Hyphenation Patterns

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

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

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

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

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

  The patterns have been converted to a format groff can understand.

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

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

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. The files `tmac/hyphen.det' and `tmac/hyphen.den' contain the same
  patterns as the files `dehyphn.tex' and `dehypht.tex' (for TeX), which
  can be found at

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

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

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. The file `tmac/hyphenex.det' is identical to the file `dehyphtex.tex',
which can be found at

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

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

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1.455 lksctp-tools 1.0.18-3.el8

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must be distributed under the terms of Sections 1 and 2 above on a
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source code from the same place satisfies the requirement to
distribute the source code, even though third parties are not
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Section 6 states terms for distribution of such executables.

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

If such an object file uses only numerical parameters, data
structure layouts and accessors, and small macros and small inline
functions (ten lines or less in length), then the use of the object
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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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1.456 libxcursor 1.1.15-3.el8

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1.457 libxi 1.1.4-1.el8

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1.458 perl-unicode-normalize 1.25-396.el8

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1.460 libfontenc 1.1.3-8.el8

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Version 3, 29 June 2007

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1.463 libxrender 0.9.10-7.el8

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1.464 libxfixes 5.0.3-7.el8

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this function must
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1.466 pigz 2.4-4.el8

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1.467 diffutils 3.6-6.el8

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

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1.469 nghttp2 1.33.0-3.el8_2.1

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.473 bcrypt 4.0.0

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1.474 gojsonreference 0.0.0-20180127040603-bd5ef7bd5415

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1.475 html5lib 1.1

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1.476 cryptography 37.0.4

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1.477 python-certifi 2022.06.15

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This package contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
$Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.478 docker 5.0.3

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1.479 python-certifi 2018.01.18

1.479.1 Available under license :

This packge contains a modified version of ca-bundle.crt:

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

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with
an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $
 $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

1.480 python-certifi 2022.6.15

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

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This is a bundle of X.509 certificates of public Certificate Authorities
(CA). These were automatically extracted from Mozilla's root certificates
file (certdata.txt). This file can be found in the mozilla source tree:
http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#
It contains the certificates in PEM format and therefore
can be directly used with curl / libcurl / php_curl, or with

an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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1.481 activation 1.2.1

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1.482 myapp 0.1.0-0001

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1.483 pycparser 2.21

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pycparser -- A C parser in Python

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1.484 chardet 3.0.4

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1.485 pep517 0.12.0

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1.486 servlet-api 3.1.0

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